ADOBE ACCESSIBILITY

Adobe® Acrobat® 9 Pro Accessibility Guide: Best Practices for Accessibility



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Introduction

PDF Accessibility

A document or application is accessible if it can be used by people with disabilities—such as mobility impairments, blindness, and low vision—and not just by people who can see well and use a mouse. Accessibility features in Adobe Acrobat, Adobe Reader, and Adobe Portable Document Format (PDF) make it easier for people with disabilities to use PDF documents and forms, with or without the aid of assistive software and devices such as screen readers, screen magnifiers, and braille printers.

Making PDFs accessible tends to benefit all users. For example, the underlying document structure that makes it possible for a screen reader to properly read a PDF out loud also makes it possible for a mobile device to correctly reflow and display the document on a small screen. Similarly, the preset tab order of an accessible PDF form helps all users—not just users with mobility impairments—fill the form more easily.

Each PDF File is Different

Not all PDFs are the same. PDF files are created in a variety of ways, from a variety of applications, and for a variety of purposes. In addition to applying the proper accessibility enhancements to PDF documents, achieving your accessibility goals for an individual PDF file requires understanding the nature of the PDF and the uses for which it is intended.

Using this guide, you will learn how to assess existing PDF files for certain characteristics which influence their accessibility. The order in which this assessment is conducted is important. By following these procedures in the recommended order, users can efficiently proceed through the analysis of a PDF file in a systematic fashion. Systematically ruling out or confirming certain characteristics which a PDF file may possess will guide you to the most appropriate next step for making an individual PDF accessible (See "Acrobat 9 Pro PDF Accessibility Repair Workflow" on page 5).

This guide also discusses techniques for converting source files to accessible PDF. Using the Adobe PDFMaker with Microsoft Word as an example, this guide provides best practices for designing your source document with accessibility in mind so that the original document can be efficiently transformed into an accessible PDF version (See "Creating Accessible PDF Files Using Authoring Applications" on page 53).

Note: These Best Practices techniques assume the user has access to Adobe Acrobat Pro 9 or Adobe Acrobat 9 Pro Extended for Windows. Adobe Reader 9 and Adobe Acrobat 9 Standard do not have the complete set of tools needed to create and validate PDF documents for accessibility.

Two Workflows for Creating Accessible PDF Files

The PDF format is a destination file format. PDF files are typically created in some other application. What this means is that the author who is concerned with PDF accessibility will be confronted with one of two situations:

- Individuals working with an existing PDF file will want to know how to edit/update it to be an accessible PDF file.
- Authors will want to know how to use some other software application, such as a word processing or desktop publishing application, to generate an accessible PDF file from that application if possible.

Making an Existing PDF File Accessible

"Acrobat 9 Pro PDF Accessibility Repair Workflow" on page 5 provides a step-by-step approach for analyzing PDF files and making them accessible based upon that analysis.

Generating Accessible PDF Files from Authoring Applications

"Creating Accessible PDF Files Using Authoring Applications" on page 53 provides an example using Microsoft Word of how to use Acrobat's PDFMaker to make an accessible PDF files from a word processing application.

Even if you generate an accessible PDF file from an authoring application, you should then follow the steps in **"Acrobat 9 Pro PDF Accessibility Repair Workflow" on page 5** in order to identify any items that may have been missed in the initial conversion or to add PDF accessibility features that are not provided by the authoring tool.

Characteristics of Accessible PDF files

The Adobe Portable Document Format (PDF) is the native file format of the Adobe[®] Acrobat[®] family of products. The goal of these products is to enable users to exchange and view electronic documents easily and reliably, independently of the environment in which they were created. PDF relies on the same imaging model as the PostScript[®] page description language to describe text and graphics in a device-independent and resolution-independent manner. To improve performance for interactive viewing, PDF defines a more structured format than that used by most PostScript language programs. PDF also includes objects, such as annotations and hypertext links, that are not part of the page itself but are useful for interactive viewing and document interchange.

Accessible PDFs have the following characteristics:

Searchable text

A document that consists of scanned images of text is inherently inaccessible because the content of the document is a graphic representing the letters on the page, not searchable text. Assistive software cannot read or extract the words in a graphic representation, users cannot select or edit the text, and you cannot manipulate the PDF for accessibility. You must convert the scanned images of text to searchable text using optical character recognition (OCR) before you can use other accessibility features with the document (See "Step 2: Determine if the PDF is a Scanned Document" on page 5).

Fonts that allow characters to be extracted to text

The fonts in an accessible PDF must contain enough information for Acrobat to correctly extract all of the characters to text for purposes other than displaying text on the screen. Acrobat extracts characters to Unicode text when you read a PDF with a screen reader or the Read Out Loud tool, or when you save as text for a braille printer. This extraction fails if Acrobat cannot determine how to map the font to Unicode characters.

Interactive form fields

Some PDFs contain forms that a person is to fill out using a computer. To be accessible, form fields must be interactive—meaning that a user must be able to enter values into the form fields (See "Step 3: Add Interactive Features: Form Fields and Buttons" on page 8). Interactive PDF forms also have a defined tab order allowing users of assistive technology to use the tab key in order to progress from one form field or interactive control in a logical manner.

Other Features: Buttons, hyperlinks, and navigational aids

Navigational aids in a PDF—such as links, bookmarks, headings, a table of contents, and a preset tab order for form fields—assist all users in using the document without having to read through the entire document, word by word. Bookmarks are especially useful and can be created from document headings. Many of these aids can be accessed using the keyboard without relying on the mouse (See "Step 3: Add Interactive Features: Form Fields and Buttons" on page 8). and (See "Step 4: Add Other Accessibility Features" on page 16)..

Document language

Specifying the document language in a PDF enables some screen readers to switch to the appropriate language (See "Document Language" on page 16).

Security that will not interfere with assistive technology

Some authors of PDFs restrict users from printing, copying, extracting, adding comments to, or editing text. The text of an accessible PDF must be available to a screen reader. You can use Acrobat to ensure that security settings don't interfere with a screen reader's ability to convert the on-screen text to speech (See "Set Security That Permits Accessibility" on page 17).

Document structure tags and proper read order

To read a document's text and present it in a way that makes sense to the user, a screen reader or other textto-speech tool requires that the document be structured. Document structure tags in a PDF define the reading order and identify headings, paragraphs, sections, tables, and other page elements (See "Step 5: Determine if the PDF File is a Tagged PDF File" on page 20).

Alternative text descriptions

Document features such as images and interactive form fields can't be read by a screen reader unless they have associated alternative text. Though web links are read by screen readers, you can provide more meaningful descriptions as alternative text. Alternative text and tool tips can aid many users, including those with learning disabilities (See "Step 6: Determine if the PDF File is Properly Tagged" on page 23).

Adobe Acrobat and Adobe Reader Accessibility Features

Accessibility features in Adobe Acrobat and Adobe Reader fall into two broad categories: features to make the reading of PDF documents more accessible and features to create accessible PDF documents. To create accessible PDF documents, you must use Acrobat, not Reader.

Features for Accessible Reading of PDFs

- Preferences and commands to optimize output for assistive software and devices, such as saving as accessible text for a Braille printer
- Preferences and commands to make navigation of PDFs more accessible, such as automatic scrolling and opening PDFs to the last page read
- Accessibility Setup Assistant for easy setting of most preferences related to accessibility
- Keyboard alternates to mouse actions
- Reflow capability to temporarily present the text of a PDF in a single easy-to-read column
- Read Out Loud text-to-speech conversion.
- Support for screen readers and screen magnifiers

Features for Creating Accessible PDFs

- Creation of tagged PDFs from authoring applications
- Conversion of untagged PDFs to tagged PDFs from within Acrobat
- Security setting that allows screen readers to access text while preventing users from copying, printing, editing, and extracting text
- Ability to add text to scanned pages to improve accessibility
- Tools for editing reading order and document structure
- Tools for creating accessible PDF forms

Making PDF Accessible with Adobe Acrobat 9 Pro

Though Acrobat Standard provides some functionality for making existing PDFs accessible, you must use Acrobat Pro or Acrobat Pro Extended to perform certain tasks—such as editing reading order or editing document structure tags—that may be necessary to make some PDF documents and forms accessible (See "Table 1: Features for Creating Accessible PDF Files by Product" on page 4).

	Reader 9	Acrobat 9 Standard	Acrobat 9 Pro	Acrobat 9 Pro Extended
Create PDF documents from any application that prints		•	•	•
Convert Microsoft Word, Excel, PowerPoint, Publisher, and Access files to PDF with one- button ease*		•	•	•
Capture web pages as rich, dynamic PDF files for review and archiving		•	•	•
Scan paper documents to PDF and automatically recognize text with optical character recogni- tion (OCR)		•	•	•
Save PDF files as Microsoft Word documents, retaining the layout, fonts, formatting, and tables, to facilitate reuse of con- tent		•	•	•
Easily create fillable PDF forms from paper or existing files using the Form Wizard		•	•	•
Enable users of Adobe Reader [®] (version 8 or later) to fill in and save PDF forms locally		•	•	•
Create dynamic XML forms with Adobe LiveCycle® Designer ES (included)*			•	•
Create and validate accessible PDF documents			•	•
	* Windo	ows Only		

Table 1: Features for Creating Accessible PDF Files by Product

Acrobat 9 Pro PDF Accessibility Repair Workflow

PDF Accessibility Workflow Summary

At a high level, the process of making existing PDF files accessible consists of a few basic steps:

- 1. Analyze and evaluate the PDF document before you (See "Step 1: Analyze the PDF File" on page 5).
- 2. Determine if the PDF file originated from a scan. If so, perform Optical Character Recognition (OCR) using the OCR Text Recognition command in Adobe Acrobat 9 (See "Step 2: Determine if the PDF is a Scanned Document" on page 5).
- 3. Add fillable form fields and buttons with short descriptions if the PDF file is intended to work as an interactive document. Set the tab order for the form field (See "Step 3: Add Interactive Features: Form Fields and Buttons" on page 8).
- 4. Add other accessibility features to the PDF such as bookmarks and security that does not interfere with assistive technology (See "Step 4: Add Other Accessibility Features" on page 16).
- 5. Add tags to the PDF if it has not been tagged (See "Step 5: Determine if the PDF File is a Tagged PDF File" on page 20).
- 6. Determine if the PDF file has been properly tagged (See "Step 6: Determine if the PDF File is Properly Tagged" on page 23).
- 7. Use the Adobe Acrobat 9 Pro accessibility checker to evaluate the PDF and repair tagging problems and other issues such as missing alternate text descriptions, missing short descriptions for form fields, and improper read order. Run the accessibility checker and follow its suggestions for repair until no problems are found (See "Step 7: Use the Accessibility Checker to Evaluate the PDF File" on page 44).

Though these stages are presented in an order that suits most needs, you may perform tasks in these stages in a different order or iterate between some of the stages. In all cases, you should first examine the document, determine its intended purpose, and use that analysis to determine the workflow that you should apply.

Step 1: Analyze the PDF File

When you open the PDF file, take a moment to analyze the document before you. Take a moment to note its characteristics.

- Is it a short document with a small number of pages or a long document consisting of many pages?
- Is the document mostly text or a mixture of text and graphics?
- Does the document appear to have form fields?
- Another item to note is the complexity of the document's layout. In some instances, documents of shorter length may be more challenging from an accessibility perspective than longer docments because their layout and read order are more complex. Is the layout simple, a single column with a limited number of graphics, or is it complex with multiple columns, mixed layouts, tables and many graphics? Complex layouts are an indicator that you may be spending more time with the document doing more detailed accessibility enhancements with the Touch Up Read Order Tool.

Step 2: Determine if the PDF is a Scanned Document

A common method for making PDF documents is to place a paper copy of a document into a scanner and then opening the resulting electronic version using Adobe Acrobat to view the newly scanned document as a PDF file. Unfortunately, this process results in creating an image of text and not the actual text itself. This

means the content is not accessible to users who rely on assistive technology to hear the contents of the page. Additional work must take place to make the document accesible.

Note: If you are certain that the PDF document is not a scanned document or it has previously undergone optical character recognition, you can skip this discussion and proceed to "Step 3: Add Interactive Features: Form Fields and Buttons" on page 8.

How to Tell if a PDF File is a Scanned Document

There are a number of indications that a PDF file originated from a scanned page. Onscreen, the document appears to contain text, but the page is actually an image. Choose the method that suits you best for determining if the PDF is from a scan and is an "image only" PDF.

• Note if the page appears to be skewed. Sometimes sheets are not properly fed into the scanner with the effect being the page appears to be crooked, or skewed on the screen . Lines of text will not be straight but will appear to slant up or down (See "Figure 1 Skewed Text Indicates a Scanned PDF" on page 6)

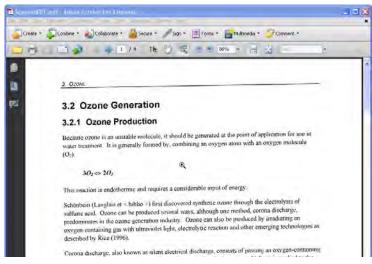


Figure 1 Skewed Text Indicates a Scanned PDF

• Search for characters that appear on the page. Use the find command in Acrobat to search for text that appears on the page. Select Edit > Find (Ctrl + F on Windows or Option + F on Mac OS) and type a term that appears on the page in the search field.

If the document was scanned, Acrobat will not find the search but will display a message indicating "Acrobat has finished searching the document. No matches were found".

• Zoom in and check for jagged edges on smooth characters. Scanned images are bitmaps (See "Figure 2 Bitmap text (top) and text that has undergone OCR (bottom)" on page 7)The edges of curves on bit maps will not appear to be smooth or rounded but will be jagged as shown in the top sample illustrating the word "Ozone" in Figure 2 on page 7 Use the marquee zoom tool in Acrobat to define the area and magnify the edges of curved letters such as "c", "s", and "o". Text that has undergone the OCR process using the

ClearScan option will display smoother edges as shown in the bottom illustration of the word "Ozone" in **Figure 2 on page 7**



Figure 2 Bitmap text (top) and text that has undergone OCR (bottom)

• Use assistive technology or the Read Out Loud feature. Acrobat 9 Pro can detect the presence of assistive technology and if it encounters a scanned document will announce an audible empty page warning and display the Scanned Page Alert dialog (See "Figure 3 Scanned Page Alert Dialog" on page 7)



Figure 3 Scanned Page Alert Dialog

What to Do if the PDF is a Scanned Document

Perform Optical Character Recognition (OCR) to convert the bitmap image of text to actual characters. In Acrobat 9 Pro. You can do this by selecting "OK" from the Scanned Page Alert dialog (See "Figure 3 Scanned Page Alert Dialog" on page 7) You can also run the "Recognize Text Using OCR" command in Acrobat 9.

- Document > OCR Text Recognition > Recognize Text Using OCR...
- or use the keyboard accelerator: ALT + D + C + R

All three of these methods will result in the display of the Recognize Text dialog (See "Figure 4 Recognize Text Dialog and Recognize Text Settings" on page 8) Use the Edit button in the scanned page dialog to set the desired characteristics for the resulting file.

- Primary OCR Language (user should select the applicable document language)
- PDF Output Style should be ClearScan. ClearScan will allow the resulting PDF to "reflow". The other two options, "Searchable Image" and "Searchable Image Exact" will work with assistive technology but will result in a PDF file that cannot be reflowed.
- Downsample should be set to the lowest downsampling which results in the highest resolution as measured in dots per inch (dpi). This should be 600 dpi.

Making PDF Accessible with Adobe Acrobat 9 Pro

В

All pages Qurrent page	Recognize Text - Set	tings	
Settings	Primary OCR Language	English (US)	1
Primary OCR Language: English (US)	PDF Output <u>S</u> tyle	ClearScan	8
PDF Output Style: ClearScan Downsample: Lowest (600 dpi)	<u>D</u> ownsample Images	Lowest (600 dpi)	1
		OK Can	tel

Figure 4 Recognize Text Dialog and Recognize Text Settings

For additional information on performing optical character recognition using Adobe Acrobat, refer to the Acrobat 9 Help.

What to Do if the PDF is Not a Scanned Document

Proceed to "Step 3: Add Interactive Features: Form Fields and Buttons" on page 8.

Step 3: Add Interactive Features: Form Fields and Buttons

Determining if a PDF file is meant to be an interactive form is a matter of visually examining the file and looking for the presence of form fields, or areas in the document where some kind of information is being asked for such as name, address, social security number. Boxes or fields drawn on the page are also typical indications that the document is meant to function as a form. If you want users to be able to complete the form online, rather than resort to printing a paper copy in order to complete the form, then the form is meant to be an interactive form.

Note: If you are certain the PDF document is not intended to have fillable form fields or buttons, you can skip this discussion and proceed to "Step 4: Add Other Accessibility Features" on page 16.

You can make form fields accessible to vision impaired users and users with mobility challenges by adding fillable fields to the PDF and by properly structuring it. In addition, you can use the Tooltip field property to provide the user with information about the field or to provide instructions. For example, using the Tooltip property value, the screen reader user would hear "Check this box if you will be attending the luncheon." Without the tool tip property, a screen reader simply provides the name of the form field (Check Box 1), its type (Check Box), and its state (Unchecked). It would not be clear to someone listening to the form that they are indicating their desire to attend a luncheon.

You can have Acrobat Pro detect and create the form fields automatically or you can manually create the necessary fields using Acrobat Pro's form tools.

This discussion limits itself to the accessibility issues involved with PDF forms. For a more detailed discussion of forms, refer to the Adobe Acrobat 9 Online Help.

PDF Form Fields

A PDF form created with Acrobat can contain the following types of fields:

- Text field. Lets the user type in text, such as name, address, or phone number.
- **Check box.** Presents yes-or-no choices for individual items. If the form contains multiple check boxes, the user can typically select as many or few of these as needed.
- **Radio button.** Presents a group of choices from which the user can select only one item. All radio buttons with the same name work together as a group.
- List box. Displays a list of options the user can select. You can set a form field property that enables the user to Shift-click or Control-click to select multiple items on the list.
- Combo box. Lets the user either choose and item from a pop-up menu or type in a value.
- **Button.** Initiates a change on the user's computer, such as opening a file, playing a sound, or submitting data to a web server. These buttons can be customized with images, text, and visual changes triggered by mouse actions. Action buttons have a different purpose than radio buttons, which represent data choices made by the user.
- **Digital signature field.** Lets the user electronically sign a PDF document with a digital signature.
- **Barcode.** Encodes the input form selected fields and diplays it as a visual pattern that can be interpreted by decoding software or hardware (available separately).

Use Acrobat to Detect and Create Interactive Form Fields

You can convert an existing electronic document (for example a Word, Excel, or PDF document) or scan a paper document to a PDF form, and then add interactive form fields to the form.

When you convert a document to an Acrobat form, Acrobat can detect the form fields in the document. In many instances, Acrobat will use the form field labels to name the field and provide a Tooltip. While the results are often acceptable, this is not a foolproof process. You will need to examine the document carefully to verify that Acrobat accurately detected the fields and labelled them appropriately.

Acrobat Form Wizard

You can use the Form Wizard in Adobe Acrobat 9 Pro or Adobe Acrobat 9 Pro Extended to create interactive forms from an existing electronic document (for example a Word, PDF, or Excel document) or scan a paper form into a PDF form.

• Choose Forms > Start Form Wizard.

This displays the Create or Edit Form Dialog. From the Create or Edit Form Dialog, do one of the following, and then follow the on-screen instructions.

- To convert an existing electronic document (for example Word or PDF) to a PDF form, select An Existing Electronic Document. This places the document in Form Editing Mode.
- To scan a paper form and convert it to a PDF form, select A Paper Form. The form will be scanned and placed in Form Editing Mode.
- To use LiveCycle Designer to create a form from scratch or from one of the available templates, select No Existing Form.

Note: Using the Adobe LiveCycle Designer, included in Adobe Acrobat Pro and Adobe Acrobat Pro Extended for Windows, to create accessible PDF forms is beyond the scope of this Best Practices Guide.

The Form Wizard completes its analysis of the document, adds any form fields it may detect and places the PDF form in Forms Editing Mode where you can edit the automatically created fields or add additional form fields (See "Forms Editing Mode" on page 11).

During form field detection, Acrobat may have missed some fields or created unneeded fields. It may have also created fields of the wrong type. Please verify the fields and field names on your form. You can select Add New Field on the Forms Editing toolbar to add more fields or right click on the form to edit or delete fields.

Enter Forms Editing Mode Directly

If you don't want to use the Form Wizard, you can open the file, and place the document in Form Editing Mode directly.

• From the Acrobat Menu, select Forms > Add Or Edit Fields (Keyboard shortcut is Shift + Ctrl 7).

This displays the Add or Edit Form Fields dialog (See "Figure 5 Add or Edit Form Fields Dialog" on page 10)

Answering "Yes" to the Add or Edit Form Fields dialog question "Do you want Acrobat to detect form fields for you?" results in the automatic detection of form fields prior to placing the document in Form Editing Mode. This is the same as if you had proceeded using the Form Wizard on the current PDF.

Acrobat completes its analysis of the document, adds any form fields it may detect and places the PDF form in Forms Editing Mode where you can edit the automatically created fields or add additional form fields (See "Forms Editing Mode" on page 11).

During form field detection, Acrobat may have missed some fields or created unneeded fields. It may have also created fields of the wrong type. Please verify the fields and field names on your form. You can select Add New Field on the Forms Editing toolbar to add more fields or right click on the form to edit or delete fields.

Answering "No" to the Add or Edit Form Fields dialog question "Do you want Acrobat to detect form fields for you?" also places the document in Form Editing mode, but does not create form fields automatically. You will have to add the form fields manually. Proceed to the next section, "Create Form Fields Manually" on page 10 for futher information.

Create Form Fields Manually

To add form fields manually you first select Forms > Add or Edit Fields (Keyboard shortcut is Shift + Ctrl 7) and answer "No" to the question "Do you want Acrobat to detect the Form Fields for you?" in the resulting dialog (See "Figure 5 Add or Edit Form Fields Dialog" on page 10) This places the document in Forms Editing Mode without automatically creating any fields. You can now add new form fields to the PDF form. Proceed to the next section "Forms Editing Mode" on page 11 for further instruction.



Figure 5 Add or Edit Form Fields Dialog

Forms Editing Mode

With the PDF form in Forms Editing Mode, you can add new fields and buttons to the form and edit or delete any existing field or button (See "Figure 6 Adobe Acrobat 9 Forms Editing Mode" on page 11) The Forms Editing Mode changes the Acrobat user interface slightly.

- A Forms Editing Toolbar provides access to the Select Object tool, the Add New Field button, and the Form Preview button. You can configure the Add New Field button to display the Forms tools on the toolbar instead of the Add New Field button if you prefer.
- On the right hand side of the Forms Editing Toolbar, are the Distribute Form button and the Close Form editing button.
- A fields panel appears on the left side of the document.
- There is a forms menu bar which offers users choices that are mostly restricted to forms editing functions.

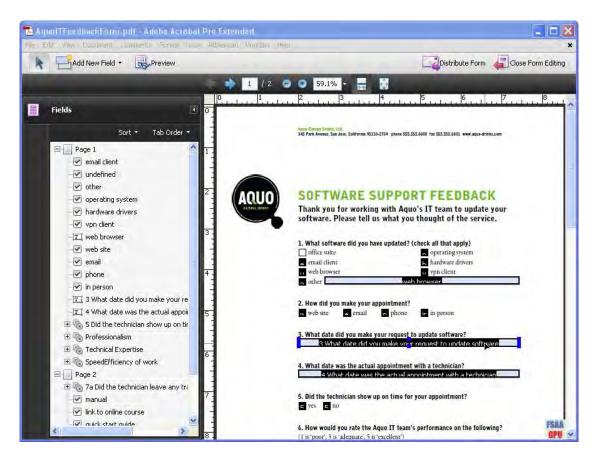


Figure 6 Adobe Acrobat 9 Forms Editing Mode

Creating a New Form Field

In Acrobat, you create a form field by choosing one of the form tools. For each field type, you can set a variety of options through the form field Properties dialog box.

You can access the forms tools one of three ways.

- You can select "Add New Field" on the Forms Editing Toolbar to add more fields
- From the Forms Editing menu you can select Forms > Form Tools (Keyboard accelerator ALT + R + O). This will provide access to the Acrobat form tools.

Making PDF Accessible with Adobe Acrobat 9 Pro

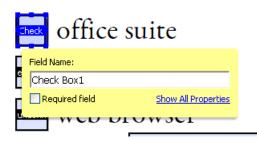
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• You can right click over the form to present options that allow you to add, edit, or delete fields.

The cursor becomes a cross hair.

- On the page, click where you want to add the field to create a field with the default size. To create a field using a custom size, drag a rectangle to define the size of the field.
- In the Field Name box, type the name of the field and specify if you want the field to be a required field. Acrobat provides a default name based upon the field type and the number of fields drawn on the page. You should choose a name that is relevant and descriptive to make organizing and collecting the data easier (See "Figure 7 Field Name Box" on page 12)
- To display the Properties dialog box and modify any other field properties, click Show All Properties (See "Figure 7 Field Name Box" on page 12)

Note: If you have selected the Keep Tool Selected option in the forms toolbar, the Field Name box doesn't appear after adding a field. Each time you click the page, a new field is added to the form. To exit this mode, press the Esc key or click the Select Object Tool button. To modify the properties of the field, double-click the field.





To test your form, click the Preview button. Previewing a form allows you to view the form the same way the form recipients will and gives you a chance to verify the form. If you are previewing a form, you can click the Edit Layout button to go back to the Forms Editing mode.

Form Field Properties

How a form field behaves is determined by settings in the Properties dialog box for that individual field. You can set properties that apply formatting, determine how the form field information relates to other form fields, impose limitations on what the user can enter in the form field, trigger custom scripts, and so forth.

You can set a variety of properties for an Acrobat form field, depending on the form field type. The properties for each type of form field are selected on a series of tabs. When you change a property, it is applied as soon as you select another property or press Enter.

All the form field types have a General tab, Appearance tab, and an Actions tab. Other tabs appear only in specific types of form fields. The Options tab appears for most form field types but the options available are unique to each type of form field.

If you are changing the properties of multiple fields, you can leave the Properties dialog box open. Click on each field to change its properties.

Tooltips for Form Fields

For accessibility, the Tooltip option on the General tab is important for entering text that will be announced by screen readers.

You can make form fields accessible to people with disabilities by adding tags to the PDF and by properly structuring it. In addition, you can use the tool tip form field property to provide the user with information

about the field or to provide instructions. For example, using the tool tip property value, the screen reader could say "Your first name." Without the tool tip property, a screen reader announces the type and name of the form field (See "Figure 8 Adding a Tooltip for Form Fields" on page 13)

- If necessary, choose Forms > Add or Edit Fields, and make sure that the Select Object tool is selected.
- Double-click a selected form field to open the Properties window.
- In the General tab, type a description into the tool tip box.

The Tooltip also displays text that users may find helpful in filling in the form field. Tooltips appear when the pointer hovers briefly over the form field.

	a .	
eneral Appeara	nce Options Actions For	mat Validate Calculate
Name FirstNa	me	
Tooltip Your fir	st name	
	schane	
	schane	
Common Prope		
		Read Only
Common Prope	arties	Read Only Required

Figure 8 Adding a Tooltip for Form Fields

Tooltips for Radio Buttons

To create a set of mutually exclusive Radio Buttons, where only one field can be selected at a time, give each field the same name but different Button values. The Button value is a field in the options tab of the Radio Button Properties dialog

To make a radio button accessible, in addition to entering unique text in the Button Value field for each choice, you would enter identical text in the Tooltip field of the General properties tab for each radio button in the group (See "Figure 9 Tooltips and Button Values for Radio Button Short Descriptions" on page 14)

For example, you may have a radio button group that asks the question, "Are You a Citizen?".

- You would create two radio buttons. For each button, you would enter the text "Are You a Citizen?" in the Tooltip field.
- For one button you would enter "Yes" in the Button Value field under the options tab, for the other "No" should be entered in the Button Value field.

Iooltip Are you a Citizen? are the both r	e and Tooltip the same for radio buttons n this set	io Aulton Tyoperties
Common Properties Form Field: Visible v Orientation: 0 v degrees bocked	Read Only Required	General Appearance Options Actions Button Style: Check Button Value: Ves Button is checked by default Button is checked by default Buttons with the same name and value are selected in unison
		Vo create a set of mutually exclusive radio buttons (i.e., where only one can be selected at a time), give the fields the same

Figure 9 Tooltips and Button Values for Radio Button Short Descriptions

Editing or Modifying an Existing Form Field

You can access Acrobat form field properties only when you are in editing mode (by choosing Forms > Add Or Edit Fields). You can change the properties for multiple form fields at a time.

Open the Properties dialog box using one of the following methods:

- To edit a single form field, double-click it or right-click/Control-click it and choose Properties.
- To edit multiple form fields, select the fields that you want to edit, right-click/Control-click one of the selected fields, and choose Properties.

Change the properties on each of the available tabs, as needed. The property is changed as soon as you select another property or press Enter.

• Click Close to close the Properties dialog box.

If you select form fields that have different property values, some options in the Properties dialog box are not available. Otherwise, changes to the available options are applied to all selected form fields.

To avoid accidental changes to the form field, select Locked in the lower left corner of the Properties dialog box before you close it. To unlock, click the check box again.

Deleting a Form Field

With the document in Forms Editing mode, click on the field you would like to delete and do any of the following.

- Right mouse click and select delete
- Press the delete key.
- From the menu, select Edit > Delete (ALT + ED)

Note: You can select multiple fields by holding the Control key as you click on each one.

Buttons

Buttons are most commonly associated with forms, but you can add them to any document. Buttons can open a file, play a sound or movie clip, submit data to a web server, and much more. When deciding on how to initiate an action, remember that buttons offer the following capabilities that links and bookmarks do not:

- A button can activate a single action or a series of actions.
- A button can change appearance in response to mouse actions.
- A button can be easily copied across many pages.
- Mouse actions can activate different button actions. For example, Mouse Down (a click), Mouse Up (releasing after a click), Mouse Enter (moving the pointer over the button), and Mouse Exit (moving the pointer away from the button) can all start a different action for the same button.

Buttons are an easy, intuitive way to let users initiate an action in PDF documents. Buttons are added the same way as form fields while in Forms Editing mode. They also should be given a name and a Tooltip and their behavior is determined by the actions the user assigns the button on the actions tab of the Button Properties dialog. They also appear in the Tab order tree. See the Adobe Acrobat Help for a complete discussion of PDF fields and buttons.

Set the Tab Order

If a PDF document doesn't have a specified tab order, the default tabbing order is based on the document structure unless the user has deselected the Tab Order option in the Accessibility preferences.

You can change the tabbing order after you create the fields.

- If you are in Forms Editing mode, you can order the tabs by document structure (default), row, or column.
- You can also choose the order manually by dragging and dropping fields in the Fields panel.
- If you are not in Forms Editing mode, you can change the page properties to order the tabs by row or column. However, you can't customize the tab order manually.

To change the tab order, first select "Order Tabs Manually" from the Tab Order button on the Fields panel. Then you can drag and drop fields where you want them within the Fields panel to modify the tab order (See "Figure 10 Rearranging Tab Order with the Fields Panel" on page 16)

To assist in determining tab order, you can select "Show Tab Numbers" from the Tab Order button of the Fields panel (See "Figure 10 Rearranging Tab Order with the Fields Panel" on page 16)

In the example shown in **Figure 10 on page 16**, the check box labelled "operating system" is in the fifth position. Selecting the entry for operating system in the Forms panel highlights the corresponding field in

the document view. To move it to the second position, drag it up and drop it below the check box for "office suite"

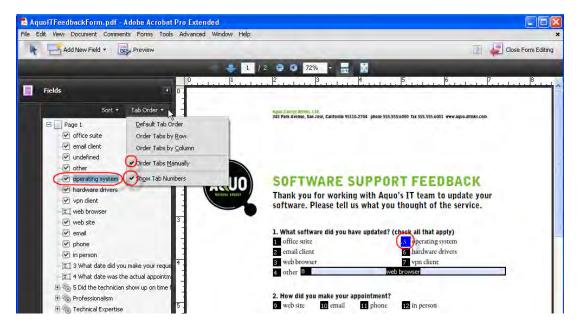


Figure 10 Rearranging Tab Order with the Fields Panel

Step 4: Add Other Accessibility Features

This stage includes setting the document language, making sure that security settings do not interfere with screen readers, creating accessible links, and adding bookmarks.

Document Language

Setting the document language in a PDF enables some screen readers to switch to the appropriate language. You can set the document language for an entire document with Acrobat Pro, Acrobat Pro Extended, or Acrobat Standard. You can set the document language for specific portions of a multilanguage document with Acrobat Pro or Acrobat Pro Extended (See "Figure 11 Setting the document language" on page 17)

To set the language for an entire document:

• Choose File > Properties, (Cntrl + D for Windows, Cmnd + D Mac OS) and select a language from the Language menu in the Reading Options area of the Advanced tab.

To set the language for an entire document to a language not in the Language menu:

 choose File > Properties (Cntrl + D for Windows, Cmnd + D Mac OS), and enter the ISO 639 code for the language in the Language field in the Reading Options area of the Advanced tab. For more information, see the ISO Language Codes on <u>http://www.loc.gov/standards</u>.

You can also set the language for individual sections or words:

- Select the desired text element in the Tags tab and right click (See "Tags Panel" on page 38)
- Choose Properties from the Options menu. In the TouchUp Properties dialog box, select the Tag tab. Select a language from the Language menu, and click Close.

Note: The language that you specify for an element also applies to all elements nested under it in the logical structure tree.

Description Security Fonts Initial View Custom Advanced	
PDF Settings	/
Base URL:	
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Irapped: Unknown	
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Page Scaling: Default 👽	
DuplexMode: Simplex	
Paper Source by Page Size:	
Print Page Range:	
Number of Copies: Default	
Reading Options	
Binding: Left Edge 🔽	
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Estonian	
Finnish	
French	
German	
Greek	
Hebrew	
Hungarian	
Help Italian Japanese	OK Cance

Figure 11 Setting the document language

Set Security That Permits Accessibility

You should ensure the Acrobat 9 security settings permit access to the document by assistive technology. You can verify the Acrobat 9 or Adobe Reader 9 security settings do not prohibit access to assistive technology by checking the security preferences tab of the document properties dialog.

- Select File > Properties (Cntrl + D for Windows, Cmnd + D Mac OS)
- Select the Security Tab of the Document Properties dialog (See "Figure 12 Security Tab Location in Document Properties Dialog" on page 18)

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he document's Security Method restricts what can be done to structions, set the Security Method is his Security;	the document. To remove security
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comme Predictions Sciencery	
Printing: Mound	
Changing the Document: Allowed	
Document Assembly Allowed	
Content Copying Allowed	
Content Copying for Accessibility: Allowed	
Fage Extraction: Allowed	
Converting: Allowed	
Filing of form fields: Allowed	
Signing Allowed	
Creation of Template Pages: Allowed	
NE	

Figure 12 Security Tab Location in Document Properties Dialog

• Select "Password Security" as the security method from the drop-down list. In the Permissions section of the Password Security Settings dialog, verify the box labelled "Enable text access for screen reader devices for the visually impaired" is checked. This is the default setting for Adobe Acrobat 9 and Adobe Reader 9 (See "Figure 13 Password Security Settings" on page 18)

Figure 13 Password Security Settings

Research Security - Serlings	Ş	X
Compatibility: Acrobat 7.0 and later	W	
Encryption Level: 128-bit AES		
Select Document Components to Encryp	t	
Encrypt all document contents		
O Encrypt all document contents exce	pt metadata (Acrobat 6 and later compatible)	
C Encrypt only file attachments (Acrol	bat 7 and later compatible)	
🤹 🤹 All contents of the document wi	Il be encrypted and search engines will not be able to access the document's metadata.	
Require a password to open the docum	nent.	
Document Open Password:		
It is password will be required to o	pen the document.	
Permissions		
Restrict editing and printing of the c	focument. A password will be required in order to change these permission settings.	
Change Permissions Password:		
Printing Allowed:	None	
Changes Allowed:	None	1
Enable copying of text, images, a	nd other content	
Enable text access for screen rea	der devices for the visually impaired	
Help	OK Cancel	

Certain applications allow you to set the security settings for PDF files you plan to generate from within the application (See "Creating Accessible PDF Files Using Authoring Applications" on page 53).

Create Accessible Links

With thoughtfully provided links, users can quickly move from one part of a document to another, to related information in a different document, or to a website that is relevant to the content.

For URLs to be accessible to screen readers, you must convert them to active links and make sure that they are correctly tagged in the PDF.

Note: If you tagged the Adobe PDF during conversion from an authoring application, the links and URLs in the document are probably already active and included in the tag tree so that they are accessible to screen readers. You probably don't have to do this task unless you want to add more links.

Acrobat provides several ways to create active links for text, objects, and URLs in a PDF. However, the methods differ in how they affect the tag tree. The best way to create accessible links is with the Create Link command.

Unlike the other methods for creating links in a tagged PDF (by using the Links tool or the Create From URLs In Document command), the Create Link command adds all three tags that screen readers require in order to recognize a link. The other methods create only one of the three tags, meaning that you must manually edit the tag tree to add the remaining two tags for each link and place these tags in the proper reading order in the tree. Although you must activate links one by one, using the Create Link command provides the fastest results and the least amount of follow-up work to make the links accessible to screen readers. All that is left to do is optional editing of the tag tree to add alternate text to the new links.

Note: Automatically detected URLs in PDF documents are not accessible. Avoid using the Create Links from URLs command (Advanced > Document Processing > Create Links from URLs... or ALT + A D C) . Also, ensure that the Basic Tools General Preference, "Create Links from URLs" is unchecked (Edit > Preferences > General). While these are a convenient way to detect text that is possibly a URL which allows users to click and go to the URL, the result is not an accessible link.

Creating links with Acrobat Standard doesn't generate any tags for the links.

Do the following to make links active and add them to the tag tree:

- Select the text or object for which you want to create a link.
- Right-click the selection, and choose Create Link from the context menu.
- In the Create Link dialog box, select the appropriate options, and then follow the on-screen instructions to specify a URL, page view, or file as the link target.

By default, the selected text for each link becomes the link text. After you add all the links, you can edit the tag tree to add alternate text to the links, further improving the accessibility of the PDF.

Add Bookmarks

A bookmark is a type of link with representative text in the Bookmarks panel in the navigation pane. Each bookmark goes to a different view or page in the document. Bookmarks are generated automatically during PDF creation from the table-of-contents entries of documents created by most desktop publishing programs. These bookmarks are often tagged and can be used to make edits in the PDF.

Initially, a bookmark displays the page that was in view when the bookmark was created, which is the bookmark's destination. In Acrobat, you can set bookmark destinations as you create each bookmark. However, it is sometimes easier to create a group of bookmarks, and then set the destinations later.

In Acrobat, you can use bookmarks to mark a place in the PDF to which you want to return, or to jump to a destination in the PDF, another document, or a web page. Bookmarks can also perform actions, such as executing a menu item or submitting a form.

Note: An Acrobat user can add bookmarks to a document only if the security settings allow it.

Step 5: Determine if the PDF File is a Tagged PDF File

Tagging is essential for PDF accessibility, it is used to establish logical read order and to provide hooks for adding alternative text descriptions to non-text elements that are in the PDF document.

If you have been following the workflow up to this point, you will have a PDF file that is searchable because you performed optical character recognition on a scanned document, or it was searchable to begin with. You have also added any desired interactivity in the form of navigational controls or interactive form fields. At this point it may or may not be a tagged PDF file.

Note: If you are certain the PDF document has been tagged, you can skip this discussion and proceed to "Step 6: Determine if the PDF File is Properly Tagged" on page 23.

How to Tell if a PDF File is Tagged

There are several ways to determine if a PDF file has been tagged.

• View Document Properties. File > Document Properties (Ctrl +D) - In the lower left hand corner of the Description tab, is an indication as to whether or not the document is tagged (See "Figure 14 Tagged PDF File Property" on page 21)

File	AquoAgreement	
	AquoAgreement	
<u>T</u> itle:	1	
<u>A</u> uthor:	1	
<u>S</u> ubject:	1	
Keywords:	-	
Application: Advanced	Acrobat PDFMaker 9.0 for Word	
PDF Produce	r: Adobe PDF Library 9.0	
PDF Versio	n: 1.7 (Acrobat 8.x)	
Locatio	n: C:\Documents and Settings\gpisocky\My	Documents\Access Demos\Acroba\7_standards\
File Siz	e: 119.84 KB (122,721 Bytes)	
Page Siz	e: 8,50 × 11.00 in	Number of Pages: 6
Tagged PD	P: Yes	Fast Web View: Yes

Figure 14 Tagged PDF File Property

- **Reveal the Tags Panel.** View > Navigation Panels > Tags. An untagged document will display the words "No Tags Available" as its root. A tagged document will show structure. To expand the entire tree fully, Cntrl + click on the root node labelled "Tags".
- Note: In certain instances, a document may not be considered tagged by Acrobat even though a structure is visible in the Tags panel. Select the tags options icon and ensure a check mark appears before the entry "Document is Tagged PDF." If it does not, simply select this entry to add the missing check mark (See "Figure 15 Document is Tagged PDF Indicator in a Structured Document" on page 22)

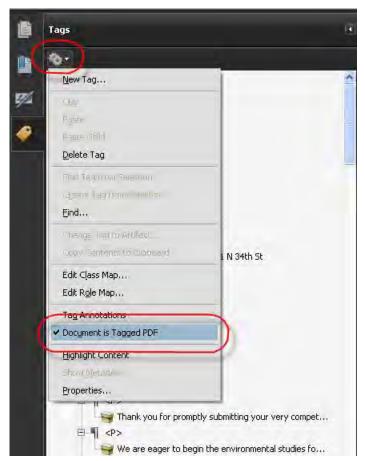


Figure 15 Document is Tagged PDF Indicator in a Structured Document

- **Run the Accessibility Quick Check**. Advanced > Accessibility > Quick Check (Shift + Ctrl + 6). If the document is not tagged, the Accessibility Quick Check will indicate the document is not structured.
- Run the Accessibility Full Check. Advanced > Accessibility > Full Check. If the document is not tagged, the Accessibility Full Check will indicate the document is not tagged.
- Use the Touch Up Read Order Tool. Advanced > Accessibility > TouchUp Reading Order - An untagged document will not appear to have undergone a change. A tagged document will display shaded areas on the page that are numbered. An untagged document will not display these numbered rectangles (See "TouchUp Reading Order Tool (TURO)" on page 23)

What to do if the PDF File is Not Tagged

Add tags to the document using Adobe Acrobat 9 Pro.

 From the menu, select Advanced > Accessibility > Add Tags to Document (Keyboard Accelerator is ALT + AAA)

About the Add Tags Report

If Acrobat encounters potential problems while running the Add Tags To Document command, the Add Tags Report opens in the navigation pane. The report lists potential problems by page, provides a navigational link to each problem, and offers suggestions for fixing them.

You could choose to repair the problems at this time by following the suggestions in the Add Tags report or now that the file is tagged proceed to the next step **"Step 6: Determine if the PDF File is Properly Tagged"** on page 23.

If you choose to repair the document at this stage, remember to assess the context of any error before following a particular suggestion for fixing it. For example, the report might state that an element that has been tagged as a figure and requires alternate text to make it accessible. When you examine the figure in its context on the page, you may decide that the figure is a background design element, not an illustration that conveys valuable meaning to the user. In the case of a nonessential image, and you would change the Figure tag to a Background tag; in the case of an image intended to convey meaning to the reader, you would add the missing alternate text (See " Step 6: Determine if the PDF File is Properly Tagged" on page 23)

Note: The Add Tags Report highlights tagging-related problems only, and it is a temporary file that you cannot save. You can assess other tagging, reading order, and accessibility problems by using Full Check.

If adding tags to a PDF in Adobe Acrobat results in a tagging structure that is overly complicated or too problematic to fix, you can use the TouchUp Reading Order tool to remove or replace the current structure. If the document contains mostly text, you can select a page and then remove headings, tables, and other elements to create a cleaner, simpler tagging structure (See "TouchUp Reading Order Tool (TURO)" on page 23).

What to do if the PDF File is Tagged

Proceed to the next step, "Step 6: Determine if the PDF File is Properly Tagged" on page 23.

Step 6: Determine if the PDF File is Properly Tagged

The easiest way to determine if the PDF file has been properly tagged is to use the TouchUp Reading Order Tool (See "TouchUp Reading Order Tool (TURO)" on page 23)

• From the menu, select Advanced > Accessibility > Touchup Reading Order.... (Keyboard Accelerator is ALT + AAT)

The Touch Up Reading Order Tool divides a tagged page into shaded segments. Each segment is numbered indicating the read order of the item on the page. You can also verify the read order of items on the page by displaying the order panel from the Touch Up Read Order Tool.

Note: If you are certain the PDF document is properly tagged, you can skip this discussion and proceed to "Step 7: Use the Accessibility Checker to Evaluate the PDF File" on page 44.

TouchUp Reading Order Tool (TURO)

The TouchUp Reading Order tool provides the easiest and quickest way to fix reading order and basic tagging problems. When you select the TouchUp Reading Order tool, a dialog box opens that lets you see overlay highlights that show the order of page content. Each highlighted region is numbered and highlighted with gray or colored blocks; the number indicates the region's placement in the page's reading order. After you check the reading order of the page, you can correct other, more subtle tagging issues as needed.

The TouchUp Reading Order tool is intended for repairing PDFs that were tagged using Acrobat, not for repairing PDFs that were tagged during conversion from an authoring application. Whenever possible, you should return to the source file and add accessibility features in the authoring application. Repairing the original file ensures that you don't have to repeatedly touch up future iterations of the PDF in Acrobat.

You use the TouchUp Reading Order tool to perform the following accessibility tasks:

• Visually check, and then repair, the reading order of page content

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- Tag fillable form fields and their labels
- Add alternative text to figures and descriptions to form fields
- Fix the tagging of simple tables, and prepare complex tables for more advanced manipulation in the logical structure tree
- Remove nonessential content, such as ornamental page borders, from the logical structure tree

hÜp Reading Order	
Draw a rectangle around the content then click one of the buttons below:	I
Text Figu	re
Eorm Field Figure/C	aption
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Heading 2 Ce	
Heading 3 Form	ula
Background	1
Table Editor	
Show gage content order	
Show table cells	
Show tables and figures	
Clear Page Structure	Order Pane

Figure 16 TouchUp Reading Order Dialog

Selecting the TouchUp Reading Order Tool

To select the TouchUp Reading Order Tool, do one of the following:

- Choose Advanced > Accessibility > TouchUp Reading Order (ALT + AAT)
- Choose Tools > Advanced Editing > TouchUp Reading Order Tool (ALT + TAG).
- Click the TouchUp Reading Order tool button in the Advanced Editing toolbar.

When you select TouchUp Reading Order, a dialog box opens that lets you see overlay highlights that show the order of page content (See "Figure 17 Result of Selecting the TouchUp Reading Order Tool" on page 25)

Each highlighted region is numbered and highlighted with gray or colored blocks; the number indicates the region's placement in the page's reading order.l

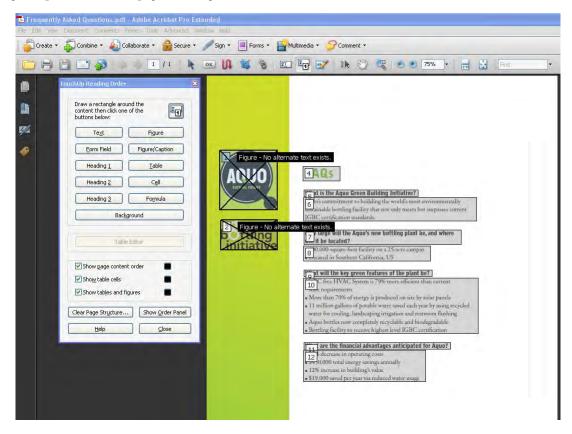


Figure 17 Result of Selecting the TouchUp Reading Order Tool

TouchUp Reading Order Tool Options

You can select TouchUp Reading Order options from the dialog box, from the pop-up menu that appears when you right-click a highlighted region, or from the Options menu in the Order tab. The TouchUp Reading Order tool includes the following options:

- Text . Tags the selection as text.
- **Figure**. Tags the selection as a figure. Text contained within a figure tag is defined as part of the image and is not read by screen readers.
- Form Field . Tags the selection as a form field.
- **Figure/Caption**. Tags a selected figure and caption as a single tag. Any text contained in the tag is defined as a caption. Useful for tagging photos and captions and preventing caption text from being incorrectly added to adjacent text blocks. Figures may require alternate text.
- Heading 1, Heading 2, Heading 3. Tags the selection as a first, second, or third level heading tag. You can convert heading tags to bookmarks to help users navigate the document.
- **Table**. Tags the selection as a table after the selection is analyzed to determine the location of headings, columns, and rows.
- **Cell**. Tags the selection as a table or header cell. Use this option to merge cells that are incorrectly split.

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- **Formula**. Tags the selection as a formula. Because speech software may handle formula tags differently from normal text, you may want to add a description using alternate text.
- **Background**. Tags the selection as a background element, or artifact, removing the item from the tag tree so that it doesn't appear in the reflowed document and isn't read by screen readers.
- **Table Editor**. Automatically analyzes the selected table into cells and applies the appropriate tags. The table must be tagged as a table before you can use the Table Editor command on it.
- Show Page Content Order . Shows content elements as highlighted areas that contain numbers to indicate the reading order. The rectangle next to this entry is a color swatch. Specify the desired highlight color for page content order by clicking the color swatch.
- Show Table Cells . Highlights the content of individual table cells. The rectangle next to this entry is a color swatch. Specify the highlight color for Table Cells by clicking the color swatch.
- Show Tables And Figures . Outlines each table and figure with a crossed-out box. The box also indicates whether the element includes alternate text. The rectangle next to this entry is a color swatch. Specify the highlight color for Tables and Figures by clicking the color swatch.
- **Clear Page Structure**. Removes the tagging structure from the page. Use this option to start over and create a new structure if the existing structure contains too many problems.
- Show Order Panel . Opens the Order tab to allow you to reorder highlighted content.
- Edit Alternate Text . Available in the menu that appears when you right-click a highlighted figure. Allows the user to add or edit a text description about the figure properties that is read by a screen reader or other assistive technology.
- Edit Form Field Text . Available in the menu that appears when you right-click a form field. Allows the user to add or edit a form field text description that is read by a screen reader or other assistive technology.
- Edit Table Summary . Available in the menu that appears when you right-click a highlighted table. Allows the user to add or edit a text description about the table properties that is read by a screen reader or other assistive technology.

Tips for using the TouchUp Reading Order tool

When using the TouchUp Reading Order tool, you should be mindful of the following tips for use:

- Save the document (or a copy of it) before you use the TouchUp Reading Order tool. You can't use Undo to reverse changes made with this tool, so reverting to a saved document is the only way to undo such a change.
- Choose View > Page Display > Single Page, when using the TouchUp Reading Order tool. When you click the Clear Structure button, Acrobat clears tags from all visible pages—even pages that are only partially visible.

Checking Read Order with the Touch Up Read Order Tool

You can quickly check the reading order of tagged PDFs by using the TouchUp Reading Order tool. You can also use this tool to add alternate text to images and correct many types of tagging problems that are outlined in the report that Acrobat generates when you add tags to a PDF.

Reading-order problems are readily apparent when you use the TouchUp Reading Order tool. Each section of contiguous page content appears as a separate highlighted region and is numbered according to its placement in the reading order.

Within each region, text is ordered left to right and top to bottom. (You can change this order in the TouchUp preferences.) If a single highlighted region contains two columns of text or text that won't flow normally, divide the region into parts that can be reordered. Because highlighted regions are rectangular, they may overlap somewhat, especially if their page content is irregularly shaped. Unless page content overlaps or is contained within two highlighted regions, no reading order problem is indicated. Page content should belong to no more than one highlighted region.

You can change the reading order of the highlighted regions by moving an item in the Order Panel or by dragging it on the page in the document pane. By reordering highlighted regions on the page, you can make a figure and caption read at the specific point that they are referenced in the text. By changing the order of a highlighted region, you effectively change the reading order of that item without changing the actual appearance of the PDF.

Check reading order with the TouchUp Reading Order tool

- Select the TouchUp Reading Order tool.
- In the TouchUp Reading Order dialog box, select Show Page Content Order.

Note: If highlighted regions don't appear in the document pane, the document doesn't contain tags. You will need to tag the document (See " What to do if the PDF File is Not Tagged" on page 22)

Optionally, do any of the following:

- To specify a highlight color, click the color swatch, and then click the color you want.
- To highlight tables and figures, and to view alternate text for figures, select Show Tables And Figures.
- Check the reading order of text within each highlighted region. Zooming in can make this step easier.
- Check the numbered order of all highlighted regions. If consecutive, numbered regions don't follow one another, reorder them in the Order tab.
- Click Show Order Panel, and then select each content entry (in square brackets []) in the Order tab to highlight that content region in the document pane. Use this method to find numbered regions that you can't see or locate on the page.

Change the reading order by dragging on the page

- Select the TouchUp Reading Order tool.
- In the TouchUp Reading Order dialog box, select Show Page Content Order.
- In the document pane, place the pointer over the number for the highlighted region you want to move, and drag it to where you want it to be read. The text-insertion pointer shows target locations within the text.

When you release the highlighted region, the location of the text-insertion pointer becomes the dividing line as the underlying highlighted region is split into two new highlighted regions. All highlighted regions are renumbered to show the new reading order.

Change the reading order using the Order panel

- Select the TouchUp Reading Order tool.
- In the TouchUp Reading Order dialog box, click Show Order Panel.
- In the Order tab, navigate to view a list of highlighted regions that appear in the document pane.

In the Order tab, drag the tag for a highlighted region to the location you want. As you drag, a line appears to show potential locations. After you drag an item to a new location, the highlighted

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regions are renumbered to show the new reading order. You can select and move multiple, adjacent regions (See "Figure 25 Acrobat 9 Pro Order Panel" on page 38).

Editing Tags with the TouchUp Reading Order Tool

You can use the TouchUp Reading Order tool to create tags in untagged PDFs or to add new tags to an existing structure. However, this manual tagging doesn't provide the same level of detail to the tagging structure as the Add Tags To Document command, such as paragraphs, bulleted and numbered lists, line breaks, and hyphens. Before you clear the existing structure, make sure that manual tagging is your only recourse.

Tag a region

• Using the TouchUp Reading Order tool, drag within the document pane to select a region of the page that contains one type of content (for example, a text block).

Do one of the following:

- To add more page content to the current selection, Shift-drag.
- To remove page content from the current selection, Ctrl-drag/Command-drag.

Click the appropriate button in the TouchUp Reading Order dialog box to specify the tag type.

Change the tag for a region

If Acrobat tags a page element incorrectly, you can change the tag type for the highlighted region.

- Select the TouchUp Reading Order tool.
- In the TouchUp Reading Order dialog box, select Show Page Content Order.

To select a highlighted region, do one of the following:

- Drag to select it.
- Click the number of a highlighted region.
- Click the button for the tag type that you want for the highlighted region.

Add or remove content from a tagged region

The TouchUp Reading Order tool always displays as few highlighted regions as possible. If content within a highlighted region doesn't flow properly, you may need to split a region to reorder it. Highlighted regions may also contain adjacent page content that is unrelated or that requires a different tag type. Page content may become orphaned from related elements, particularly if the content doesn't fit within a rectangular shape. Use the TouchUp Reading Order tool to add or remove content from a region, or to split a region to reorder the content.

- Select the TouchUp Reading Order tool.
- In the TouchUp Reading Order dialog box, select Show Page Content Order.
- In the document pane, select a highlighted region.

Do one of the following:

- To add content to the current selection, Shift-click the content you want to add. The pointer changes to include a plus sign (+).
- To remove content from the current selection, Ctrl-click/Command-click the content you want to remove. The pointer changes to include a minus sign (-).

Click the button for the tag type that you want for the highlighted region.

Split a region into two regions

• Select the TouchUp Reading Order tool.

- In the TouchUp Reading Order dialog box, select Show Page Content Order.
- In the document pane, drag to select a small portion of content near the boundary of the first region that you want to create.
- Click the Background button in the dialog box. The highlighted region splits into two regions, numbered from right to left.
- If you need to correct the reading order, click Show Order Panel, and drag the new highlighted region to the correct location in the Order tab.

Drag to select the first content region you created, including the region you defined as Background, and then set the tag by clicking a button in the TouchUp Reading Order dialog box.

Apply a heading tag

To help readers navigate a document and find the information they need, make sure that headings are tagged with the appropriate level to indicate their hierarchy in the content.

- Select the TouchUp Reading Order tool, and then select the heading text in the PDF.
- In the TouchUp Reading Order dialog box, click the button corresponding to the appropriate heading tag (for example, Heading 1, Heading 2).

Remove page elements from the tag structure

When tagging a PDF, Acrobat can't always distinguish between instructive figures and decorative page elements. Items that visually enhance page layout, such as decorative borders, lines, or background elements, can add clutter to the structure layout and should be removed. Therefore, Acrobat may incorrectly tag artifacts or page elements as figure tags. You can remove artifacts and irrelevant page elements from the tag structure by redefining them with the Background tag or by deleting their tags. If a tagged image in the document doesn't contain useful or illustrative information for the user, you can remove the element from the tagging structure so that it isn't read out loud or reflowed.

- Select the TouchUp Reading Order tool.
- In the TouchUp Reading Order dialog box, select Show Page Content Order and Show Tables And Figures.
- Remove the page element by doing one of the following:
- In the document pane, select the page element, and then click Background in the dialog box.

In the Order tab, select the page element, and then press Delete.

Apply a figure tag

You can select an element and define it as a figure by using the TouchUp Reading Order tool. Once you define it as a figure, you can add alternate text to describe the figure.

- Using the TouchUp Reading Order tool, select the figure.
- In the TouchUp Reading Order dialog box, click Figure.
- In the document pane, right-click the region and choose Edit Alternate Text.

Enter alternate text, and click OK.

Using TouchUp Reading Order to Check and Correct Figure Tags

You can use the TouchUp Reading Order tool to identify and correct tagging results for figures. Determine whether figures include or require alternate text in order to be read correctly with assistive technologies. Ideally, figure tags should identify image content that is meaningful to the document as a whole, such as graphs or illustrative photographs. If background elements that shouldn't be read are tagged as figures, redefine them as background.

• Select the TouchUp Reading Order tool, and then click Show Tables And Figures in the dialog box.

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Do any of the following:

- If a figure isn't tagged as a figure, select the content region you want, and then click Figure or Figure/Caption in the dialog box.
- To remove text that was incorrectly combined with a figure, drag to select the text, and click the Text button in the dialog box.

To include a caption that is grouped with the figure, select the figure and caption, and click the Figure/ Caption button in the dialog box.

Adding Alternate Text with the TouchUp Reading Order Tool

If you want screen readers to describe graphical elements that illustrate important concepts in a document, you must provide the description using alternate text. Figures aren't recognized or read by a screen reader unless you add alternate text to the tag properties. If you apply alternate text to text elements, only the description, not the actual text, is read.

- Select the TouchUp Reading Order tool.
- Select Show Tables And Figures in the dialog box. Figures that are missing Alternate Text will have a flag indicating "Figure No alternate text exists" (See "Figure 18 Add / Edit Alternate Text with TouchUp Reading Order" on page 30).
- Right-click the figure, and choose Edit Alternate Text from the pop-up menu. (See "Figure 18 Add / Edit Alternate Text with TouchUp Reading Order" on page 30)

In the Edit Alternate Text dialog box, type a new (or edit an existing) description for the figure, and then click OK (See "Figure 19 TouchUp Reading Order Alternate Text Dialog" on page 31)

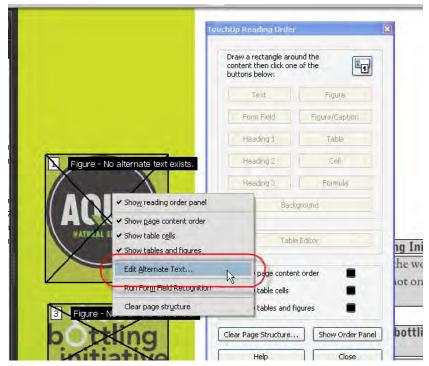


Figure 18 Add / Edit Alternate Text with TouchUp Reading Order

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lt-Text

Figure 19 TouchUp Reading Order Alternate Text Dialog

Using the TouchUp Reading Order Tool Table Editor

Tables pose a special challenge for screen readers because they present textual or numerical data to be easily referenced visually. Content within table cells can be complex and might contain lists, paragraphs, form fields, or another table.

The TouchUp Reading Order Table Editor automatically analyzes the selected table into cells and applies the appropriate tags. The table must be tagged as a table before you can use the Table Editor command on it.

For best results when tagging tables, use the application that you created the document with to add tags when you create the PDF. If a PDF isn't tagged, you can add tags by using the Add Tags To Document command. Most tables are properly recognized using this command; however, the command may not recognize a table that lacks clear borders, headings, columns, and rows. Use the TouchUp Reading Order tool to determine if the table has been properly recognized and to correct recognition problems. To add specialized formatting to tables and table cells, use the Tags tab.

You can use the Table Editor to automatically analyze a table into its components and apply the appropriate tags, but you may still need to check and correct some of these tags manually. By viewing table tags, you can determine whether columns, rows, and cells have been correctly identified. Tables that lack well-defined borders and rules are often tagged incorrectly or contain adjacent page elements. You can correct poorly tagged tables by selecting and redefining them; you can split combined cells by creating a tag for each cell.

- Select the TouchUp Reading Order tool, and then click Show Tables And Figures.
- If the table isn't clearly labeled in the document pane, drag to select the entire table, and then click Table in the dialog box.
- Click Show Table Cells to make sure that all cells in the table are defined as individual elements.

If cells don't appear as separate elements, do one of the following:

- If one or more cells are merged, use the TouchUp Reading Order tool to select the area within a single cell, and then click Cell in the dialog box. Repeat for each merged cell.
- If cells aren't highlighted, the table might not use standard table formatting. Re-create the table in the authoring application.

Add a Table Summary

• With the cursor over the table, right click to add a Table Summary. The Edit Table Summary option is available in the menu that appears when you right-click a highlighted table. This allows the user to add or edit a text description about the table properties that is read by a screen reader or other assistive technology.

Place the Table in Editing Mode

There are two ways to place Tables in Table Editing Mode with the TouchUp Reading Order Tool:

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- With the cursor over the table, right click to select Table Editor from the drop down list to place the table in Table Editing mode.
- You can also click the Show Order Panel in the TouchUp Reading Order dialog and select the table from the Order Panel. One technique is to highlight the snippets of text in the Order Panel that match the headings of the first row in the table. This often activates the Table Editor when it cannot otherwise be activated. You then select the Table Editor button on the TouchUp Reading Order dialog to place the table in Table Editing Mode (See "Figure 20 Using the Order Panel to Activate the Table Editor" on page 32)

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A Wanit wangkräcklining på Page 1 Page 2 Page 3 Page 5 Page 5 Page 6 Page 6	Modal some Modal some Product type Color Size in min (L x W B) Weight in g (with standard battery) Volume Stand by lime (hh-mm) Talk lime (hh-mm) Talk lime (hh-mm) Battery type Battery type Battery type Battery type Battery capacity (mAh) Earphone Integrated Handsfree V/brute In boilt MODEM (Data/FK) GSM Camera	Spedification TEL-100:X Mobile phone Various T10.5mm x 48:5mm x 22 mm 1200 100cc Up to 90 - 111 fours Up to 4:7 hours Liftern Ion Neo mAh Yes Yes Yes Yes Yes Nes Yes Yes Nes Yes Yes Posi Integral nodem as modem support GSM 900-1900, 1000 Integrated camera, with 4x L Plash and Red-Eve reductor	Hondary I Table Heading 2 Cell Heading 3 Formula Bodiground Table buttor Show page content order Show tables and figures Show tables and figures Clear Page Structure

Figure 20 Using the Order Panel to Activate the Table Editor

Once in Table Editing Mode, the borders of the table cells are highlighted. You can change the color of the border to suit your needs (See "Figure 21 Table Editing Mode" on page 33). You can select individual cells by clicking within the borders with the mouse. You can select multiple table cells by holding down Shift and clicking. This is an effecient method for selecting the first row of data cells in a table which need to be changed to header cells.

er I	TEL-100/A TECHNICAL FEA	ures
4 WordExampleSolution.pdf	Feature	Specification
Page 1	Model name	TEL-100/X
Page 3	Product type	Mobile phone
Page 4	Color	Various
Page 5	Size in mm (L x W x B)	110.5mm x 48.5mm x 22.8mm
Page 6 [1] TEL-100/X Technical Features	Weight in g (with standard battery)	120g
🥞 [2] Feature Specification Model n	Volume	108cc
🥞 [3]	Stand by time (hh:mm)	Up to 90 - 170 hours
	Talk time (hh:mm)	Up to 4 – 7 hours
	Battery type	Lithium Ion
	Battery capacity (mAh)	1050 mAh
	Earphone	Yes
	Integrated Handsfree	Yes
	Vibrate	Yes
	In built MODEM (Data/Fax)	Yes – Integral modern as well as fax modern support
	GSM	GSM 900, 1900, 1800
	Camera	Integrated camera with 4x Digital Zoon, Flash and Red-Eye reduction. Integrated Camcorder with audio recording
	Maximum camera resolution (in pixel WxH)	VGA 640 x 480

Figure 21 Table Editing Mode

Once in Table Editing Mode, you can right click to display the Table Cell Properties dialog or the Table Editor Options dialog.

The Table Cell Properties dialog (See "Figure 22 Table Cell Properties" on page 34) allows you to:

- Specify the type of cell the selected cell should be, whether a Header cell or Data cell
- Set the cells attibutes for row span and column span. Assign a unique header ID for Table Headers or associate Data cells with Header IDs that have been created for the table

Type ⊙ <u>H</u> eader Cell <u>S</u> cope:	Column	
O <u>D</u> ata Cell		
Attributes		
<u>R</u> ow Span:	0	
<u>C</u> olumn Span:	1	
ĪD:	F	
Associated Header Cell IDs:		Þ
		-

Figure 22 Table Cell Properties

The Table Editor Options dialog allows users to control how table cells and table headers are displayed by Acrobat when using the TouchUp Reading Order Table Editor (See "Figure 23 Table Editor Options" on page 34).

Table Editor Options	×
Color Options	
Border color	
Header cell color	
Data cell color	
Selection color	
Show cells that span multiple rows or columns	
Label Option	
Show cell type (TH or TD)	
OK Cancel)

Figure 23 Table Editor Options

Note: To correct complex tagging problems for tables, you often must use the Tags Panel.

Remove or replace document structure tags

If the tags in a PDF file in Acrobat appear to be overly complicated you can try retagging an already tagged document. To do this, you must first remove all existing tags from the tree.

If adding tags to a PDF in Adobe Acrobat results in a tagging structure that is overly complicated or too problematic to fix, you can use the TouchUp Reading Order tool to remove or replace the current structure. If the document contains mostly text, you can select a page and then remove headings, tables, and other elements to create a cleaner, simpler tagging structure.

Acrobat can retag an already tagged document after you first remove all existing tags from the tree.

Replace the existing tag structure

This procedure works best in pages that contain a single column of text. If the page contains multiple columns, each column must be selected and tagged individually.

- Select the TouchUp Reading Order tool.
- In the document pane, drag to select the entire page. The selection includes both text and nontext elements.
- Ctrl-drag/Command-drag around nontext page elements—such as figures and captions—to deselect them, until only text is selected on the page. Click Text in the TouchUp Reading Order dialog box.

In the document pane, select a nontext page element, such as a figure and caption, and click the appropriate button in the dialog box to tag it. Repeat until all page content is tagged.

Remove all tags from a PDF

- Open the Tags tab (View > Navigation Panels > Tags) and select the root (topmost) tag, Tags.
- In the Tags tab, choose Options > Delete tag.

Note: The Clear Page Structure command in the TouchUp Reading Order dialog box removes all tags from the currently visible pages.

Complex Structures

While you can use the TouchUp Reading Order tool to create tags in untagged PDFs or to add new tags to an existing structure, this manual tagging doesn't provide the same level of detail to the tagging structure as the Add Tags To Document command, such as paragraphs, bulleted and numbered lists, line breaks, and hyphens. Before you clear the existing structure, make sure that manual tagging is your only recourse.

To perform more advanced reading order and tagging tasks—such as fixing complex tables, removing obsolete tags after you delete pages, and adding alternative text to links—you may need to use the Content Panel and the Tags panel, which provide an alternate set of tools and features for manipulating PDF tags.

Content Panel

Use the Content Panel to correct reflow problems in a PDF that can't be corrected by using the TouchUp Reading Order tool. Because you can damage a PDF by editing content objects, make sure that you're familiar with PDF structure before you change anything. For comprehensive information about PDF structure, see the *PDF Reference Sixth Edition: Adobe Portable Document Format Version 1.7*, on the <u>PDF reference page</u> (English only) of the Adobe website.

The Content Panel provides a hierarchical view of the objects that make up a PDF, including the PDF object itself. Each document includes one or more pages, a set of annotations (such as comments and links), and the content objects for the page, consisting of containers, text, paths, and images. Objects are listed in the

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order in which they appear on the page, similar to tags in the logical structure tree. However, PDFs don't require tags for you to view or change the object structure.

• Choose View > Navigation Panels > Content.

The Content Panel may open in the document viewing area. It may be part of a panel group that also includes the Order Panel and the Tags Panel. You can drag the individual panel and dock it in the Navigation pane. You can also a the menu command to dock all panels in the Navigation Pane:

View > Navigation Panels > Dock All Panels (ALT + VNK)

Click the plus sign (+) (Windows) or the triangle (Mac OS) next to the document name to view pages and objects.

Note: You may find it helpful to have Acrobat highlight items in the document view when the associated item in the Content Panel is selected. From the Content Panel Options Menu, select "Highlight Content" (See "Figure 24 Set Highlighting On for the Content Panel" on page 36).

Move a container or object by selecting it and doing one of the following:

- Drag it to the location you want.
- Choose Cut from the Options menu, select the tag above the location you want to paste the cut tag, and choose Paste from the Options menu

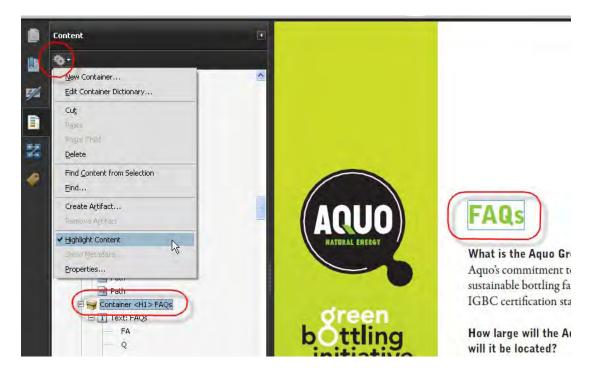


Figure 24 Set Highlighting On for the Content Panel

Note: Container elements can't be pasted directly to page elements. To move a container to another page, cut the container you want to move, select a container on the page you want to move the container to, and choose Paste from the Options menu. Then, drag the container out one level to the location that you want.

Content Tab Options

In the Content tab, use the Options menu or right-click an object to choose from the following options:

- New Container . Adds a new container object at the end of the selected page or container.
- Edit Container Dictionary . Specifies the dictionary for the container. Errors in this dialog box may damage the PDF. Available only for containers that include dictionaries.
- **Cut**. Cuts and copies the selected object (not the related page content).
- Paste . Pastes content directly below the selected object at the same hierarchical level.
- Paste Child . Pastes content into the selected object as a child content item.
- Delete . Removes the object (not the related page content) from the document.
- **Find Content From Selection**. Searches for the object in the Content tab that contains the object selected in the document pane.
- Find . Searches for unmarked (untagged) artifacts, content, comments, and links. Options allow you to search the page or document, and to add tags to found items.
- **Create Artifact**. Defines selected objects as artifacts. Artifacts are not read by a screen reader or by the Read Out Loud feature. Page numbers, headers, and footers are often best tagged as artifacts.
- Remove Artifact . Removes the artifact definition from the selected object.
- **Highlight Content**. When selected, highlights appear in the document pane around content that relates to a selected object in the Content tab.
- Show Metadata . Allows viewing and editing of image or object metadata.
- **Properties**. Opens the TouchUp Properties dialog box.

Order Panel

You can change the reading order of the highlighted regions by moving an item in the Order tab or by dragging it on the page in the document pane. By reordering highlighted regions on the page, you can make a figure and caption read at the specific point that they are referenced in the text. By changing the order of a highlighted region, you effectively change the reading order of that item without changing the actual appearance of the PDF.

To select the Order Panel, do one of the following:

- Select the TouchUp Reading Order tool. In the TouchUp Reading Order dialog box, click Show Order Panel.
- From the Acrobat menu select View > Navigation Panels > Order (ALT + VNO)

The Order Panel may open in the document viewing area. It may be part of a panel group that also includes the Content Panel and the Tags Panel. You can drag the individual panel and dock it in the Navigation pane. You can also use a menu command to dock all panels in the Navigation Pane:

• View > Navigation Panels > Dock All Panels (ALT + VNK)

To change the order of content using the Order Panel:

• In the Order panel, navigate to view a list of highlighted regions that appear in the document pane.

In the Order tab, drag the tag for a highlighted region to the location you want. As you drag, a line appears to show potential locations. After you drag an item to a new location, the highlighted regions are renumbered to show the new reading order. You can select and move multiple, adjacent regions.

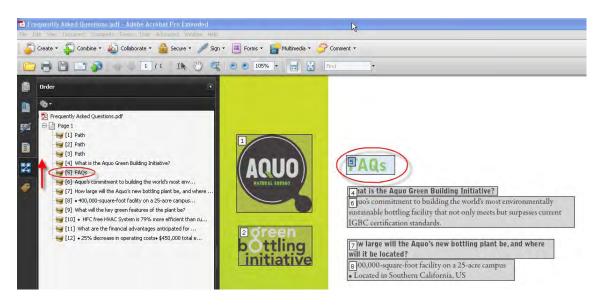


Figure 25 Acrobat 9 Pro Order Panel

Tags Panel

The Tags Panel allows you to view and edit tags in the logical structure tree, or tags tree, of a PDF. In the Tags Panel, tags appear in a hierarchical order that indicates the reading sequence of the document. The first item in this structure is the Tags root. All other items are tags and are children of the Tags root. Tags use coded element types that appear in angle brackets (<>). Each element, including structural elements such as sections and articles, appears in the logical structure order by type, followed by a title and the element's content or a description of the content. Structural elements are typically listed as container—or parent—tags and include several smaller elements—or child tags—within them.

Though you can correct most tagging issues by using the TouchUp Reading Order tool, you must use the Tags Panel to address detailed tagging of tables and substructure items—such as paragraphs, lists, and sections that require multiple languages. Add tags manually to a document using the Tags tab only as a last resort. First consider using the Add Tags To Document feature.

Note: Important: Operations performed in the Tags tab cannot be undone with the Undo command. Save a backup copy of a document before you begin work on it in the Tags tab.

To select the Tags Panel:

• Choose View > Navigation Panels > Tags.

Then do one of the following:

- Expand the tag for the section you want.
- Ctrl-click the plus sign (Windows) or Option-click the triangle (Mac OS) next to the Tags root to show all tags in the logical structure tree.
- Note: You may find it helpful to have Acrobat highlight items in the document view when the associated item in the Tags Panel is selected. From the Content Panel Options menu, select "Highlight Content" (See "Figure 26 Set Content Highlighting On for the Tags Panel" on page 39).

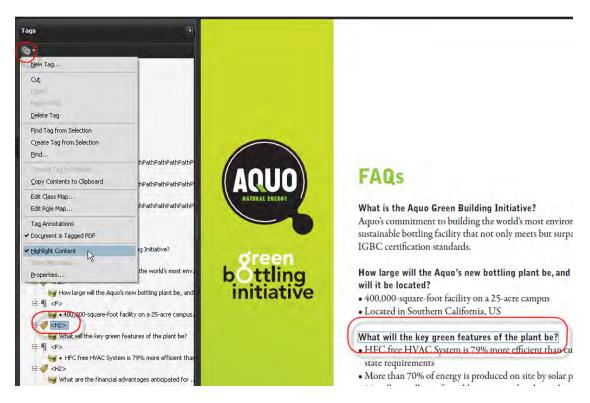


Figure 26 Set Content Highlighting On for the Tags Panel

Edit tags with the Tags Panel

You can edit a tag title, change a tag location, or change the tag type for an element. All page content must be tagged, marked as an artifact, or removed from the logical structure tree.

To reveal the TouchUp Properties for any tag select the desired tag in the Tags panel and do one of the following:

- Right click and select Properties from the context menu
- Select Properties from the Tags Panel Option Menu

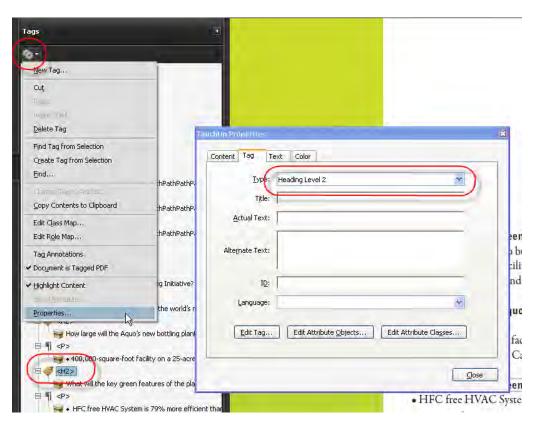


Figure 27 Revealing TouchUp Properties for Tags

Edit a tag title

- In the Tags tab, expand the section of the logical structure that you want to edit.
- To edit the title, Select the tag, choose Properties from the Options menu, enter text in the Title box, and click Close.

Move a tag

- In the Tags tab, expand the Tags root to view all tags.
- Select the Tag icon of the element that you want to move.

Do one of the following:

- Drag the tag to the location you want. As you drag, a line appears at viable locations.
- Choose Cut from the Options menu, and select the tag that appears above the location you want to paste the cut tag. From the Options menu, choose Paste to move the tag to the same level as the selected tag, or choose Paste Child to move the tag within the selected tag.

Change the element type

- In the Tags tab, expand the section of the logical structure that you want to change.
- Select an element and choose Properties from the Options menu.
- Choose a new element type from the Type menu, and then click Close.

Tags tab options

In the Tags tab, use the Options menu or right-click a tag in the logical structure tree to choose from the following options:

- **New Tag**. Creates a new tag in the logical structure tree after the currently selected item. Specify type and title of the new tag.
- Cut . Removes the selected tag from its current location and puts it on the clipboard.
- **Paste** . Places the tag that's on the clipboard into the location specified, replacing the selected tag.
- **Paste Child**. Places the tag that's on the clipboard into the location specified, as a child of the selected tag.
- Delete Tag. Removes the selected tag.
- Find Tag From Selection . Searches for the tag in the Tags tab that contains the text or object selected in the document pane.
- **Create Tag From Selection**. Creates a new tag in the logical structure tree after the item selected in the document pane. Specify type and title of the new tag.
- Find . Searches for artifacts, OCR suspects, and unmarked (untagged) content, comments, links, and annotations. Options allow you to search the page or document and add tags to found items.
- **Change Tag To Artifact**. Changes selected tags to artifacts and removes the tagged content from the structure tree.
- Copy Contents To Clipboard . Copies all content contained within the selected tags.
- Edit Class Map . Allows you to add, change, and delete the class map, or style dictionary, for the document. Class maps store attributes that are associated with each element.
- Edit Role Map . Allows you to add, change, and delete role maps for the document. Role maps allow each document to contain a uniquely defined tag set. By mapping these custom tags to predefined tags in Acrobat, custom tags are easier to identify and edit.
- **Tag Annotations**. When selected, all new comments and form fields are added to the tag tree after the selected tag element; existing comments and form fields aren't added to the tag tree. Highlight and Underline comments are automatically associated and tagged with the text that they annotate and don't require this option.
- **Document Is Tagged PDF**. Flags the PDF as a tagged document. Deselect to remove the flag.

Important: This option doesn't necessarily indicate that the PDF conforms to PDF guidelines and should be used judiciously.

- **Highlight Content**. When selected, causes highlights to appear around content in the document pane when you select the related tag in the Tags tab.
- Show Metadata . Opens a read-only dialog box that contains reference information about the selected tag.
- **Properties**. Opens the TouchUp Properties dialog box.

Add alternate text and supplementary information to tags

Some tagged PDFs might not contain all the information necessary to make the document contents fully accessible. For example, if you want to make a document available to a screen reader, the PDF should contain alternate text for figures, language properties for portions of the text that use a different language than the default language for the document, and expansion text for abbreviations. Designating the appropriate language for different text elements ensures that the correct characters are used when you repurpose the document and that it is spell-checked with the correct dictionary.

You can add alternate text and multiple languages to a tag from the Tags tab. (If only one language is required, choose the language with File > Properties instead.) You can also add alternate text by using the TouchUp Reading Order tool.

Note: Note: Keep alternate text descriptions as concise as possible.

Add alternate text to links

Screen readers can read the URLs of web links out loud, but adding meaningful alternate text to links can help users immensely. For example, by adding alternate text you can have a screen reader tell a user to "go to the Acrobat accessibility page of adobe.com" rather than "go to http://www.adobe.com/products/acrobat/ solutionsacc.html."

You add alternate text to the <Link> tag of a link.

Note: Note: You must add alternate text only to tags that don't have child tags. Adding alternate text to a parent tag prevents a screen reader from reading any of that tag's child tags.

- In the tag tree, select the <Link> tag for the link and choose Options > Properties.
- In the TouchUp Properties dialog box, select the Tag tab.
- Type alternate text for the link, and click Close.

Add alternate text for a figure

- Choose View > Navigation Panels > Tags.
- Expand the logical structure tree to find and select the <Figure> tag element for the image.

To find a tag more easily, use the TouchUp Reading Order tool to select the figure—or text near the figure—in the document pane, and then choose Find Tag From Selection from the Options menu in the Tags tab.

- Choose Highlight Content from the Options menu in the Tags tab to see a highlighted area in the document that corresponds to the tag.
- Choose Properties from the Options menu in the Tags tab.
- In the TouchUp Properties dialog box, click the Tag tab.
- For Alternate Text, type text that describes the figure.

Add alternate text for an abbreviated term

In the Tags panel, locate the abbreviated term by doing one of the following:

- Expand the tag tree as needed to see the elements that contain the abbreviation.
- Use the TouchUp Text tool or the Select tool to select the abbreviation in the document, and then choose Find Tag From Selection from the Options menu to locate the text in the tag tree.
- Select the tag for that element, and choose Properties from the Options menu.

Note: Note: If the abbreviation includes additional text, cut the additional text and place it in a new child tag within the same parent tag.

- In the TouchUp Properties dialog box, select the Tag tab.
- For Alternate Text, type the unabbreviated version of the term.

Click Close.

Create a new child tag

- In the Tags tab, select the parent node (the icon located at the same level at which you want to create a child tag) in the Tags tree for which you want to create a child tag.
- Choose New Tag from the Options menu.

Select the appropriate tag type from the Type pop-up menu, or type a custom tag type, name the tag (optional), and then click OK.

Add tags to comments

When you tag a PDF that includes comments, the comments are tagged as well. However, if you add comments to a PDF that's already tagged, your comments are untagged unless you enable comment tagging first.

Note: To Enable comment tagging in a PDF, in the Tags tab, choose Tag Annotations from the Options menu. Comments or markups that you add to the PDF are tagged automatically.

If a document contains untagged comments, you can locate them in the logical structure tree and tag them by using the Find command in the Tags tab.

- In the Tags tab, choose Find from the Options menu.
- In the Find Element dialog box, choose Unmarked Comments from the Find pop-up menu, and click Find.
- When the comment type appears in the Type field (for example, Text), click Tag Element, choose Annotation from the Type pop-up menu in the New Tag dialog box, and then click OK.

In the Find Element dialog box, click Find Next to locate and tag all comments, and then click Close.

Correct table tags with the Tags tab

Use the TouchUp Reading Order tool to make sure that tables are tagged correctly. If you need to structure figures and text within the cells of your table, you may prefer to re-create the table in the authoring application before you convert it as an accessible PDF. Adding tags on a cell level in Acrobat is a labor-intensive procedure.

Before you make any changes to table elements, use the TouchUp Reading Order tool to determine that the table is tagged correctly.

Check table elements

- In the Tags tab, expand the tags root to view a table tag.
- Select the table tag <Table> and verify that it contains one of the following elements:

Table Rows, each of which contains Table Header <TH> or Table Data <TD> cells.

<THead>, <TBody>, and <TFoot> sections, each of which contains Table Rows. (The Table Rows contain <TH> cells, <TD> cells, or both.)

Do one or more of the following:

- If the tag for the table doesn't contain these elements, but rows, columns, and cells appear in the table in the document pane, use the TouchUp Reading Order tool to select and define the table or individual cells.
- If the table contains rows that span two or more columns, set ColSpan and RowSpan attributes for these rows in the tag structure.
- Re-create the table in the authoring application, and then convert it to a tagged PDF.

Making PDF Accessible with Adobe Acrobat 9 Pro

Set ColSpan and RowSpan attributes

- In the Tags tab, select a <TD> or <TH> element.
- Choose Properties from the Options menu.
- In the TouchUp Properties dialog box, click the Tag tab, and then click Edit Attribute Objects.
- Select Attribute Objects, and then click New Item to create a new Attribute Object Dictionary.
- Expand the new dictionary, select the Layout attribute, and then click Change Item.
- Change the Layout value to Table.
- Select the Attribute Object Dictionary, and click New Item.

In the Add Key And Value dialog box, type ColSpan or RowSpan in the Key box, enter the number of columns or rows spanned in the Value box, choose Integer from the Value Type pop-up menu, and click OK.

Step 7: Use the Accessibility Checker to Evaluate the PDF File

Note: The accessibility checker tools (Quick Check and Full Check) can help to identify areas of documents that may be in conflict with Adobe's interpretations of the accessibility guidelines referenced in the application and its documentation. However, these tools don't check documents against all accessibility criteria, including those in such referenced guidelines, and Adobe does not warrant that documents comply with any specific guidelines or regulations.

Quick Check

Use Quick Check to check for document structure tags, searchable text, and appropriate security settings for accessibility. This method is often the best way to check for accessibility before attempting to use a PDF.

Quick Check Results

- This document has logical structure but it is not a Tagged PDF. Some accessibility information may be missing." Quick Check has found an underlying document structure in the document, so Acrobat will use the available document structure to control the reading order, rather than analyzing the document itself. However, this untagged document structure might be incomplete or unreliable, so assistive software and the accessibility features in Acrobat (such as the Read Out Loud and the Save As Text features) may not read the page properly. If the reading order of the page seems to be wrong, select Override The Reading Order In Tagged Documents in the Reading panel of the Preferences dialog box.
- This document is not structured, so the reading order may not be correct. Try different reading orders using the Reading Preferences panel." . Quick Check has found no underlying document structure that Acrobat can use for reading order. Acrobat will analyze the reading order of the document using the current analysis method set in the Reading Order preference, but this PDF might not be read correctly by screen readers. If the reading order seems wrong, select a different option for Reading Order in the Reading panel of the Preferences dialog box.
- No accessibility problems were detected in this quick check. Choose the Full Check command to check more thoroughly. Quick Check has found that the PDF contains searchable text, is tagged, has an underlying document structure, and has no security settings that prohibit access for screen readers. To check for other types of accessibility problems that may be present in the PDF, use Full Check.

- This document's security settings prevent access by screen readers. Quick Check has found that the PDF has security settings that interfere with screen readers' ability to extract text for conversion to speech. You may be able to use a screen reader with this document if your assistive technology product is registered with Adobe as a Trusted Agent. Contact your assistive technology product vendor.
- This document appears to contain no text. It may be a scanned image. Quick Check has found that the PDF contains no searchable text, probably because the document consists entirely of one or more scanned images. This means that screen readers, Read Out Loud, Reflow view, and most other accessibility features—which rely on text as input—will not work with this document

Full Check

Use Full Check to perform a more thorough check for many characteristics of accessible PDFs, such as the use of fonts that can be mapped reliably to Unicode text.

Full Check checks a PDF for many of the characteristics of accessible PDFs.

You can choose which kinds of accessibility problems to look for and how you want to view the results.

- Choose Advanced > Accessibility > Full Check.
- Select options for how you want to view the results.

You can save the results as an HTML file or as comments that are located where the accessibility problems are detected.

• Select a page range if you prefer to do a full check on individual sections of a document.

When you have a large document, running a full check one section at a time can be more efficient.

• Select an accessibility standard (Adobe PDF, Section 508 (U.S.), or W3C) from the Name menu, and then select the accessibility options to check for.

The standard that you select in the Name menu determines which accessibility options are available.

• Click Start Checking.

The results are displayed in the left panel, which also has helpful links and hints for repairing issues (See "Figure 28 Acrobat 9 Pro Accessibility Report" on page 46)

If you created a report in step 2, the results are available in the selected folder. Clicking on the links highlights the problem areas in the document. The Accessibility Checker panel also provides hints for repair which you should follow

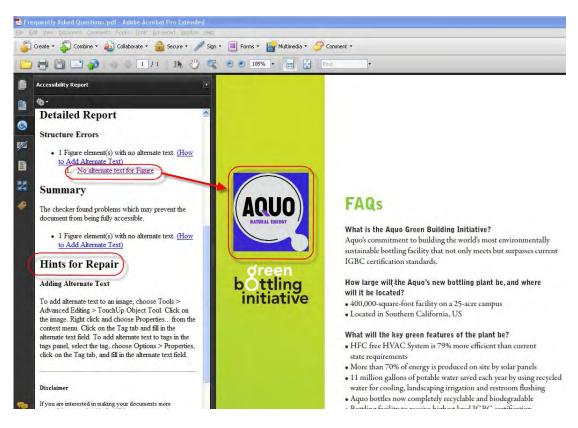


Figure 28 Acrobat 9 Pro Accessibility Report

Because the Full Check feature is unable to distinguish between essential and nonessential content types, some issues it reports don't affect readability. It's a good idea to review all issues to determine which ones require correction.

Accessibility Full Check Options

- **Create Accessibility Report**. Creates an HTML report of accessibility issues, which is opened in the navigation pane and saved in the location indicated by the Folder field.
- Include Repair Hints In Accessibility Report . Adds suggestions for fixing accessibility problems to the HTML report or comments.
- **Create Comments In Document**. Adds comments to the document that indicate accessibility problems. Delete all accessibility comments from the PDF after you repair the accessibility issues.
- Page Range . The range of pages to check.
- **Name** . The set of accessibility criteria to check. For the Section 508 and W3C guidelines, the options area includes a Browse button that links to the website for the respective guidelines. Select Adobe PDF to choose from options for the Adobe PDF accessibility standard
- Alternative Descriptions Are Provided . Checks for tagged figures that are missing alternate text.
- **Text Language Is Specified**. Checks for paragraphs that don't have a language specified for them. Setting the language for an entire document in the Document Properties dialog box corrects all errors related to this option.

- **Reliable Character Encoding Is Provided**. Checks for fonts that are inaccessible to screen readers and other assistive software. Fonts must contain enough information for Acrobat to correctly extract all the characters to text. If one or more fonts don't allow for the correct extraction of all the characters, the PDF is inaccessible.
- All Content Is Contained In The Document Structure. Checks for page elements that may have been overlooked during tagging. Adding these elements to the tag tree (if necessary) ensures that a screen reader can present the content to a user.
- All Form Fields Have Descriptions . Checks for form fields that are missing descriptions.
- **Tab Order Is Consistent With The Structure Order**. Checks whether tags properly reflect the document's structure.
- List And Table Structure Is Correct . Checks whether tags that have been generated for lists and tables meet the requirements of tagged PDF.

Continue Checking Until All Issues are Addressed

Repeat the process of running the Accessibility Checker and using familiar repair techniques or following the Hints for Repair until the Accessibility Checker indicates "The checker found no problems in this document" for the tests you have selected (See "Figure 29 A Successful Accessibility Check" on page 47)

Note: While the Accessibility Checker helps you evaluate the accessibility of your documents and helps identify areas that may be in conflict with Adobe's interpretations of the referenced guidelines, the Accessibility Checker does not check all accessibility guidelines and criteria, including those in such referenced guidelines, and Adobe does not warrant that your documents will comply with any specific guidelines or regulations. Please consult with your legal counsel for guidance on compliance with the referenced guidelines or any other accessibility guidelines.

Adobe Acrobal	
The checker found no problems in this document.	
	ОК

Figure 29 A Successful Accessibility Check

Additional Validation Techniques

Of course, the best way to test the accessibility of a document is to attempt to use the document with the tools that your readers will use. However, even if you don't have a screen reader or braille printer, you can still use any of several methods provided by Acrobat for checking the accessibility of a PDF file.

- Use Reflow view to quickly check reading order.
- Use Read Out Loud to experience the document as it will be experienced by readers who use this text-to-speech conversion tool.
- Save the document as accessible text and then read the saved text file in a word-processing application to experience the document as it will be experienced by readers who use a braille printer.
- Use the TouchUp Reading Order tool, Tags tab, and Content tab to examine the structure, reading order, and contents of a PDF in detail.

Making PDF Accessible with Adobe Acrobat 9 Pro

Making PDF Accessible with Adobe Acrobat 9 Pro

Creating Accessible PDF Files Using Authoring Applications

Introduction

In many cases, you can create tagged PDFs from within an authoring application, such as Adobe FrameMaker[®], Adobe InDesign, Adobe LiveCycle Designer. This functionality extends to applications that are not from Adobe Systems, such as Microsoft[®] Office and OpenOffice.org Writer. Creating tags in the authoring application generally provides better results than adding tags in Acrobat.

In Windows, Acrobat installs both an Acrobat PDFMaker toolbar and an Adobe PDF menu in many popular authoring applications. PDFMaker provides conversion settings that let you create tagged PDFs in Microsoft Excel, PowerPoint, and Word among others.

You can use either the toolbar buttons or the Adobe PDF menu (the Action menu in Lotus Notes) to create PDFs, but the menu also provides access to conversion settings. Although many of the conversion options are common to all authoring applications, a few are application-specific.

Note: For Microsoft Office 2007 applications such as Word, Excel, PowerPoint, and Access, the options for creating PDFs are available from the Acrobat Ribbon.

In general, the following rules apply.

- Design your source document with accessibility in mind
- Do NOT use character formatting for headings, use the program's styles.
- Do add alternative text to graphics in the source file
- Do use a table editor if available to create tables
- Do NOT use a table editor to design layouts
- Do generate the PDF file in a way that generates tags
- Do set your PDF output preferences option to tagged PDF
- Do check the results in Adobe Acrobat 9 Pro using Advanced > Accessibility > Full Check (shortcut: Alt + A + A + F)
- Do follow the suggestions for repair and repeat checking until no errors are detected

Create an Accessible Microsoft Word Document

You should author the original source document with accessibility in mind. This means you should add structure to the document by using styles rather than character formats for such items as headings and lists. You should also add alternate text descriptions to graphics that appear in the Word file using the format picture dialog. You should use Word's column command and not tables to create multi-column documents.

Use Styles

Design your documents with styles. Styles add the structure necessary to make your documents usable to people with disabilities.

Text

The default text style for Microsoft Word is Normal.

- Text should be at least 12 point type.
- Avoid using Microsoft Word text boxes.

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• Avoid using Enter to create space between paragraphs. Use the space before and space after properties in your styles

Headings

Use Styles to create heading formats. Title, Heading 1, Heading 2, Heading 3, etc. Make styles progress in a logical manner, a Heading 2 should come after a Heading 1

Word 2003 Headings

To create headings in Microsoft Word 2003 do the following

- Format > Styles and Formatting to reveal the styles and formatting task pane (See "Figure 30 Microsoft Word 2003 Styles and Formatting" on page 50).
- Apply the appropriate heading from the Styles and Formatting panel to your document text

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	 Bullets and Numbering Borders and Shading 			R	Styles and Formatting
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	Tabs				Formatting of selected text
	Drop Cop				Heading 1
CUS	h Togs Danemon		SPECIFICATION SHEET		Select Al New Style
	Change Case				Pick formatting to apply
Compar	Background				
Summary	Z Tgene				Heading 1 1
Founded in	Fgames		unufactory or mobile phones and immediations, MCDMA and mobile		Heading 2 1
equipment of		-	provides for effective integration		Heading 3
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Tarnat Mar					Show: All styles

Figure 30 Microsoft Word 2003 Styles and Formatting

Word 2007 Headings

• Select the Home Ribbon in Word 2007 and select the proper heading from the styles group (See "Figure 31 Microsoft Word 2007 Styles and Formatting" on page 50).

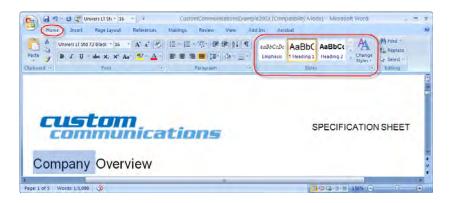


Figure 31 Microsoft Word 2007 Styles and Formatting

| 51

Add Alternative Text to Word Graphics and Images

Alternative Text or Alt Text refers to text that can be read by a screen reader to describe graphics and images which people with visual dis-abilities cannot see. All Graphics and Images should be provided with alternative text descriptions. Avoid placing graphics too close to text. This can cause problems when converting to PDF. Place white space between text and graphics.

Word 2003

- Double Click on an image or right click and select the format picture dialog.
- Select the Web tab and enter the alternative text (See "Figure 32 Microsoft Word 2003 Web Tab for adding Alternative Text" on page 51).

Colors and Lines	Size	Layout	Picture	Tayt Box	Web
Alternative text;					_
Communication					
Web browsers di are missing, We	b search :	engines use	alternative		nd Web

Figure 32 Microsoft Word 2003 Web Tab for adding Alternative Text

Word 2007

• Right Click on an image and choose Size

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• Select the Alt Text tab and enter the alternative text (See "Figure 33 Microsoft Word 2007 Alt Text for adding Alternative Text" on page 52)

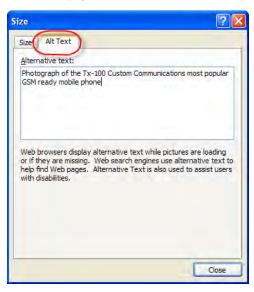


Figure 33 Microsoft Word 2007 Alt Text for adding Alternative Text

Configure the PDFMaker

Once you have authored your Microsoft Word document with accessibility in mind, you are ready to convert it to an accessible PDF file. To generate an accessible PDF document directly from the Microsoft Word source, you should use the Adobe PDFMaker to convert the file to PDF.

PDFMaker is an Acrobat feature that operates within many business applications, such as Microsoft Office applications and Lotus Notes. When you install Acrobat, PDFMaker controls appear in the work area of the authoring application.

Using PDFMaker within an authoring application is a simple, one-click procedure. It involves clicking an Acrobat PDFMaker toolbar button or choosing a command on the Adobe PDF menu. It is not necessary to open Acrobat.

In Windows, Acrobat installs both an Acrobat PDFMaker toolbar and an Adobe PDF menu in many popular authoring applications. You can use either the toolbar buttons or the Adobe PDF menu to create PDFs, but the menu also provides access to conversion settings.

Note: For Microsoft Office 2007 applications such as Word, Excel, PowerPoint, and Access, the options for creating PDFs are available from the Acrobat ribbon (See "Figure 34 Microsoft Word 2007 Adobe Acrobat Ribbon and Group" on page 53).

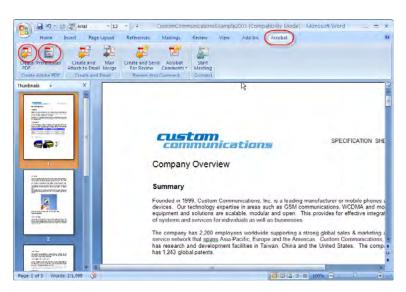


Figure 34 Microsoft Word 2007 Adobe Acrobat Ribbon and Group

Show or activate PDFMaker in Microsoft Word

If you don't see the PDF toolbar buttons in Microsoft Word, you must show or activate the PDF toolbar. Use one of the following methods to show or activate PDFMaker.

For Office 2003 or earlier,

• Choose View > Toolbars > Acrobat PDFMaker 9.0

For Office 2007

Do the following:

- Click the Office button, and then click the Word Options button
- Click Add-Ins on the left side of the dialog box.
- Do one of the following:
 - If PDFMOutlook or Acrobat PDFMaker Office COM Addin is not listed, choose COM Add-Ins from the Manage pop-up menu and click Go.
 - If PDFMOutlook or Acrobat PDFMaker Office COM Addin is listed under Disabled Application Add-ins, select Disabled Items from the Manage pop-up menu and click Go.
- Select PDFMOutlook or Acrobat PDFMaker Office COM Addin and click OK.
- Restart the Office application.

View PDFMaker conversion settings

PDFMaker conversion settings determine what features of the Microsoft Word document will be included in the PDF and how they will be translated into the resulting PDF file.

Do one of the following:

 Choose Adobe PDF > Change Conversion Settings (See "Figure 35 Change PDFMaker Settings in Word 2003" on page 54)

Elle Edit Yiew Insert Format Iools Table Window Help Contribute	
Open In Contribute Publish To Website R Post To Blog	Convert to Adobe PDF and Email
N N	Convert to Adobe PDF and Send for Review
	Change Conversion Settings
	Mail Merge to Adobe PDF
	Start Meeting
custom communications	SPECIFICATION SHEET

Figure 35 Change PDFMaker Settings in Word 2003

• (Office 2007) In the Acrobat ribbon, click Preferences (See "Figure 36 Acrobat Preferences in Word 2007" on page 54).

Home Insert Page Layout Re	● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ●	ationsExampleM _ = X
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Figure 36 Acrobat Preferences in Word 2007

If you wish to revert to the original default settings, click Restore Defaults on the Settings tab.

Settings Tab

The settings available for PDFMaker depend on the application in which you're using PDFMaker (See "Figure 37 PDFMaker Settings Tab" on page 56).

- **Conversion Settings**. Specifies the standard by which the PDF will be optimized. When you choose an item in the menu, a description of that preset appears immediately below it.
- View Adobe PDF Result . Opens the converted document directly into Acrobat. (Exception: when you choose Convert To Adobe PDF And Email.)
- **Prompt For Adobe PDF File Name**. Lets you enter a custom filename for the resulting PDF. Deselect this option to save the file in the same folder as the source file, using the same name but with a .pdf extension.
- **Convert Document Information**. Adds document information from the Properties dialog box of the source file. This setting overrides the printer preferences and settings in the Advanced panel of the Adobe PDF Settings dialog box.

Note: The Advanced Settings button opens the Adobe PDF Settings dialog box, which contains many additional conversion options. These conversion settings apply to all Acrobat

features that create PDFs, such as Acrobat Distiller, PDFMaker, and the Acrobat application itself.

• **Create PDF/A Compliant PDF File**. Creates the PDF so that it conforms to this ISO standard for long-term preservation of electronic documents. (In the Microsoft Publisher application alone, PDFMaker does not support the PDF/A standard.)

Note: When Conversion Settings are opened from within Word, Excel, or PowerPoint, this option specifies PDF/A 1-a:2005. When opened from within Microsoft Visio, Access, Microsoft Project, or AutoCAD, it specifies PDF/A 1-b:2005.

- Attach Source File . Includes the Word document that is being converted as an attachment to the resulting PDF.
- **Create Bookmarks**. Converts certain elements in original Office documents to PDF bookmarks: Word headings, Excel worksheet names, or PowerPoint titles. Selecting this option overrides any settings on the Bookmarks tab of the Conversion Settings dialog box.
- Add Links . Includes active links and hypertext in the PDF.

Note: If this option is deselected, but the recipient of the PDF has the Create Links From URLs preference selected, URLs in the PDF are still active. For more information, see <u>Preferences for viewing PDFs</u>.

• Enable Accessibility And Reflow With Tagged Adobe PDF. Embeds tags in the PDF (on by default).



Figure 37 PDFMaker Settings Tab

Security Tab

The Security tab settings available for PDFMaker depend on the application in which you're using PDFMaker (See "Figure 38 PDFMaker Security Tab" on page 57).

- **Require A Password To Open The Document**. When selected, makes the Document Open Password option available, where you enter a password that users must use to open the document.
- **Restrict Editing And Printing Of The Document**. When selected, makes the other Permissions options available.
- **Change Permissions Password**. Specifies a password you set that users must use in order to do any allowable printing or editing.
- **Printing Allowed**. Specifies whether users who use the Permissions Password can print the document and at what resolution.
- **Changes Allowed**. Specifies what kind of changes users who use the Permissions Password can make.
- Enable Copying Of Text, Images, And Other Contents . Prevents or allows users from copying from the PDF.
- Enable Text Access For Screen Reader Devices For The Visually Impaired . Prevents or allows screen reader devices to read text. (Selected by default.)
- Enable Plaintext Metadata . Specifies whether the search engine can read the document metadata. Available only when the PDF-compatibility is set to Acrobat 6.0 (PDF 1.5) or later.

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Changes Allowed:	None
Enable copying of text, images, a	and other contents
Enable text access for screen re	ader devices for the visually impaired
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Figure 38 PDFMaker Security Tab

Word Tab

Use the Word Tab to control how certain features in Microsoft Word will be rendered in PDF (See "Figure 39 PDFMaker Word Tab" on page 58).

- **Convert Displayed Comments To Notes In Adobe PDF**. Changes any Word comment entries to PDF comments. If the currently open Word document contains comments, more options appear in the Comments list on this tab:
 - **Reviewer.** Lists the names of reviewers who have entered comments in the current Word document.
 - Include. When deselected, does not include the comments in the PDF.
 - Notes Open. Specifies whether the PDF comment windows automatically open or are closed for that reviewer's comments.
 - **Color**. Shows the color for that reviewer's comment icons. Clicking the color icon repeatedly cycles through a limited set of available colors.
 - # Of Comments . Shows the number of comments that the reviewer made.
- Convert Cross-References And Table Of Contents To Links (Word 2002 and 2003 only).

Enables one-click navigation of these elements in the new PDF. This option is not available in Word 2007.

- Convert Footnote And Endnote Links . Integrates these into the PDF.
- Enable Advanced Tagging . Integrates this into the PDF. Useful for Microsoft Word forms.

Making PDF Accessible with Adobe Acrobat 9 Pro

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the second se	okmarks video				
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Figure 39 PDFMaker Word Tab

Bookmarks Tab (Microsoft Word)

The options you specify on this tab determine which items are converted into PDF bookmarks in the PDF (See "Figure 40 PDFMaker Bookmarks Tab" on page 59).

Note: To include bookmarks in the conversion process, the Add Bookmarks To Adobe PDF option on the Settings tab must be selected. If you deselect that option, it overrides any options you select on this tab and no bookmarks are created.

- **Convert Word Headings To Bookmarks** . Selects all the headings in the Elements list for conversion to PDF bookmarks.
- **Convert Word Styles To Bookmarks** . Selects all the text styles in the Elements list for conversion to PDF bookmarks. (Unselected by default.)
- **Convert Word Bookmarks** . Converts any user-created Word bookmarks to PDF bookmarks.
- Element list . Specifies which Word headings and styles are converted to PDF bookmarks.
 - **Element** . Lists the names of all available Word headings and styles. The icons for Headings and Styles indicate the element types.
 - **Type**. Also indicates whether the element is a heading or style in the Word document.
 - **Bookmark**. Displays X's, indicating whether individual elements are converted to PDF bookmarks. Clicking an individual Bookmark option changes the selection status for that element.

- Level . Specifies where the element fits in the hierarchy structure of the PDF Bookmarks panel. Clicking an individual Level number opens a menu that you can use to change the value.
- Note: When some but not all of the available Word headings and styles are selected for conversion to PDF bookmarks, the marker in the corresponding check boxes at the top of the tab change. If all elements of the type are selected, a check mark appears. If only some of the elements of that type are selected, a colored square appears. Otherwise, the check box is empty.

Convert Word Styles to I Convert Word Bookmark				
Element	Туре	Bookmark	Level	~
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'≣Heading 1	Heading		1	
⊟Heading 2	Heading	\boxtimes	2	
⊟Heading 2	Heading	\boxtimes	2	
Heading 3	Heading	XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	3	
⊟Heading 3	Heading	X	3	
⊟Heading 4	Heading	X	4	
Heading 4	Heading	$\overline{\boxtimes}$	4	
⊟Heading 5	Heading	X	5	
■Heading 5	Heading	X	5	
Heading 6	Heading	\boxtimes	6	
⊒Heading 6	Heading	X	6	
⊟Heading 7	Heading		7	
T≣Heading 7	Heading		7	M

Figure 40 PDFMaker Bookmarks Tab

Video Tab (Microsoft Word and PowerPoint)

The options you specify on this tab determine settings for multimedia files that are converted to FLV format and inserted into Word or PowerPoint files (See "Figure 41 PDFMaker Video Tab" on page 60).

- **Save Video In**. To save the converted video file in the same folder as the document, select Same As Document Folder. To save the converted video file in a different folder, select Use This Folder, and click Browse to locate and select a folder.
- Video Quality . A higher Video Quality setting results in a larger PDF file size.
- Deinterlace . Activates the video deinterlacing filter, which can improve video quality.
- Encode Audio . If unselected, the converted video file does not include audio. If selected, specify the data rate at which to encode the audio in the FLV file.

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Location			
Save Video in:	Same as document	folder	
	◯ <u>U</u> se this folder		Browse,
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<u>V</u> ideo Quality:	Good (400 kbps)	~	
	Deinterlace		
Encode Audio			
Data Rate:	Good (160 kbps)	~	

Figure 41 PDFMaker Video Tab

Settings for Other Microsoft Office Applications

There are application specific options on the settings tab of the PDFMaker for other Microsoft Office applications.

Excel-specific options on the Settings tab

These options are specific to the Settings tab in the PDFMaker for the Excel spreadsheet application.

- **Convert Comments**. Converts user-created Excel comments to notes and lists them in the Acrobat Comments panel.
- **Fit Worksheet To A Single Page**. Adjusts the size of each worksheet so that all the entries on that worksheet appear on the same page of the PDF.
- **Fit To Paper Width** . Adjusts the width of each worksheet so that all the columns on that worksheet appear on one page in the PDF.
- **Prompt For Selecting Excel Sheets**. Opens a dialog box at the beginning of the file conversion process. In this dialog box, you can specify which worksheets are included in the PDF and the order in which the sheets appear in the PDF.

PowerPoint-specific options on the Settings tab

These options are specific to the Settings tab in the PDFMaker for the PowerPoint presenation application.

• **Convert Multimedia** . Converts any linked audio-video file to an FLV file and embeds it in the PDF.

- **Preserve Animation (PowerPoint 2002 and 2003 only)**. Converts any animation effects in the PowerPoint file to equivalent animations in the PDF. This option is not available in PowerPoint 2007.
- **Preserve Slide Transitions**. Converts PowerPoint slide transition effects to PDF transition effects.
- **Convert Hidden Slides To PDF Pages**. Converts any PowerPoint slides that are not seen in the usual playing of the presentation to PDF pages.
- **Convert Speaker Notes** . Converts any speaker notes for the PowerPoint presentation into Text notes in the PDF.
- Use PowerPoint Printer Settings (PowerPoint 2002 and 2003 only). Uses the same printer settings in the PDF as in the original file. This option is not available in PowerPoint 2007.

Convert the Word Document to Accessible PDF

Open the Microsoft Word file.

Microsoft Office 2003

There are two controls on the Microsoft Word 2003 interface for converting to accessible PDF (See "Figure 42 Convert to Adobe PDF in Word 2003" on page 61).

Do one of the following:

- Click the Convert To Adobe PDF button on the Acrobat PDFMaker toolbar
- Convert to Adobe PDF from the Adobe PDF menu

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	i 🕰 i 🥙 🏭 i 🗴 🗟 😒 🕩 i 🖉 e e e - i i In Contribute 👼 Publish To Website 👼 Post To Blo		
		Convert to Adobe PDF and Send for <u>Revie</u> Change Conversion Settings	ew
		Mail Merge to Adobe PDF	
		Start Meeting	1
	communications	SPECIFICATION SHEET	

Figure 42 Convert to Adobe PDF in Word 2003

Enter a filename and location for the PDF, and click Save.

Microsoft Office 2007

Do one of the following:

• Click the Create PDF button from the Create Adobe PDF Group on the Acrobat ribbon (See "Figure 43 Create Accessible PDF in Word 2007" on page 61).

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	Æ 📆			8	
Create Preferences	Create and Mail	Create and Send	Acrobat	Start	
PDF	Attach to Email Merge			veeting	
Create Adobe PDF	Create and Email	Review And Co	omment	Connect	

Figure 43 Create Accessible PDF in Word 2007

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Select Save as Adobe PDF from the Office button (See "Figure 44 Save as Accessible PDF in Word 2007" on page 62).

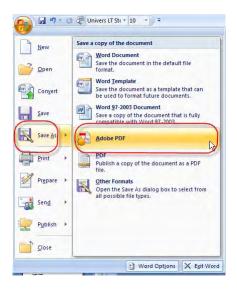


Figure 44 Save as Accessible PDF in Word 2007

Enter a filename and location for the PDF, and click Save.

If the Word Document is a Form

If the Word document has been designed as a form and you want it to be a fillable PDF form, prepare the document as described. When you are ready to import it into PDF, do so from within Acrobat using the Form Wizard. From Acrobat 9 Pro do the following:

- Select Forms > Start Form Wizard
- Check the box indicating "An existing electronic document"
- Select "Import a file from file system"
- Click the Browse button to locate the desired file
- Click Next

The document will be converted to PDF with Tags and fillable form fields. You may need to edit the results within Acrobat.

Check the PDF Version of the Document Using Acrobat

Once you have converted the document, you will still need to check the results in Adobe Acrobat. To check the results, begin at Step 5 of the PDF Accessibility Workflow (see "Step 5: Determine if the PDF File is a Tagged PDF File" on page 20). Depending upon the type of error, you may have to make adjustments in a particular location.

- Adjustments to the Conversion Settings
- Repairs You Make to the Source File
- Repairs You Make to the PDF File

Changes to the Conversion Settings

Some repairs will involve changes to the PDFMaker conversion settings. If, for example, your final check indicated that the PDF file was not tagged, you would need to verify that the Enable Accessibility and Reflow box was checked in the PDFMaker tabbed settings.

Repairs You Should Make in the Source File

Some repairs can be made on the PDF file, but they would be erased the next time a PDF file was created from the same source. A good example is missing alternative text descriptions. You can certainly use the Touchup Reading Order Tool in Acrobat to add these to a PDF file, but if you want the change to last during updates to the file, it is better to add the alternative text in the Word document using the format picture dialog (See "Add Alternative Text to Word Graphics and Images" on page 51).

Repairs You Should Make in the PDF File

Some repairs must take place on the PDF file using Adobe Acrobat 9.

Document Language

In some instances, even if the document language has been specified in the source file, the information about document language is not conveyed to the PDFMaker. Setting the language for an entire document in the Document Properties dialog box corrects all errors related to this option.

- Select File > Properties (Ctrl + D)
- In the Language drop down of the Reading Options section choose the appropriate language for the document.

Tab Order is Consistent with Structure Order

In some instances, even though the tags have been inherited from the source file, the Accessibility Checker will indicate that tab order is inconsistent with structure order. To correct this issue, do the following:

- Open the Pages icon or select View > Navigation Panels > Pages (ALT + VNP)
- Click on any page icon and type Cntrl + A (Command + A for the Mac OS) to select all the pages
- From the Options button on the pages panel select "Page Properties"
- In the Tab Order Panel, check "Use Document Structure"

Establish Table Headings for Tables

Table headers are not always properly defined after the conversion from Microsoft Word to PDF. Use the TouchUp Reading Order Table Editor to change table data cells that should be table headings to table headers or change the TD tags directly into TH tags within the tags panel.

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