

# Introduction to Designer

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### Introduction to Designer

*Designer* is a Microsoft Windows–based program that provides all the tools you need to create basic or sophisticated forms. You can create PDF or HTML forms with Designer. Designer is a multifaceted tool that supports the four most important requirements of smart forms:

- Multiple format and device support: With the new version of Designer, you can create one Designer file and render it in all the formats you need for your business. These formats include HTML, interactive and dynamic PDF forms, and read-only PDF documents. Your Designer forms and documents can be used on traditional PCs and Macintoshes and also on tablets and smartphones.
- **Data handling:** Designer makes it easy to get data structures into your forms and to output properly formatted data from your forms. Powerful tools are provided for data validation, data formatting, and data binding.
- Scriptable interactivity: Designer's scriptable interactivity goes way beyond what is available in Acroforms and other form technologies. Virtually every form object is scriptable at any step in your process. Designer has a sophisticated object model, which you can use to add powerful interactivity to your forms.
- Graphic precision and fidelity: The three preceding features would usually be enough for an interactive forms tool, but Designer also offers the graphic precision and quality of an Adobe solution. For the last 30 years, Adobe has been the unquestioned leader in computer graphics with industry leading products in graphic design, marketing, and digital publishing tools. You don't need to compromise on typography, layout, or graphic quality with Designer forms, and your one form can be used for all your business needs.

### The Workspace

The workspace consists of many editors, views, and palettes. These palettes can float or be docked like they are on the right. You can configure your workspace in many different ways, but this illustration shows a very typical and common configuration.



Designer's interface showing each of the major sections.

#### **The Layout Editor**

The Layout Editor is in the middle of the workspace, and it contains five main views: Design View, Master Pages, XML Source, Preview PDF, and Preview HTML. You'll see the Layout Editor when you have a document opened. The following is a brief introduction to each of the Layout Editor views:

- Design View: Design View is the main view in the Layout Editor and the one that you'll use the most. This view
  displays a WYSIWYG view of your form and allows you to edit many of the visual properties of your form objects
  directly.
- Master Pages: The Master Pages tab shows an independent view of your master pages without any body page content. Master pages contain content areas that define the outer boundaries for body page objects.
- XML Source: If you don't see the XML Source tab, you can select it in the View menu. This is your form in XML format. The structure of Designer forms is all XML, and as you make additions and edits to your form in Design View, this XML is updated in the background. You can quickly locate the XML source code for any of your form objects by selecting the object in the Hierarchy palette while the XML Source view is open. You'll immediately see the XML Source view update, and your selected form object will be highlighted in the XML Source view.
- Preview PDF: You can preview your forms directly in Designer by switching to the Preview PDF tab. This tab
  uses your computer's default PDF viewer, so if you have Acrobat, you'll notice part of the familiar Acrobat
  interface wrapping around your form when you view it in this tab. You can see more of Acrobat by pressing
  Alt+F8.
- Preview HTML: If you don't see the Preview HTML tab, you can select it in the View menu. If it doesn't appear
  in your View menu, you're likely using a version of Designer prior to Designer ES4. You'll learn how to configure
  and use this view in, "HTML Forms."

### **The Left Palettes**

The area on the left includes palettes you'll use to organize the structure of your form:

- Hierarchy: You'll spend a lot of time using this palette to view and organize the objects and structure of your form. When you select an object on your form, it's also selected in the Hierarchy palette, and vice versa. The Hierarchy palette displays your form's objects in a tree view, which is a great way to examine and edit your form's structure. Understanding this structure becomes particularly important when you start adding script to your form. The Hierarchy palette also displays referenced objects under the Referenced Objects node. A *referenced object* is an object that's added to a form only when it's required. Overflow leader and trailer subforms are examples of referenced objects. Whenever data flows across multiple pages or content areas, the overflow leader and trailer subforms are inserted into the form in the appropriate places.
- PDF Structure: This palette does not appear in the previous figure, but is available in Designer. It isn't usually relevant for the XML Forms Architecture (XFA) PDF forms you'll create with Designer. It's more relevant for Acroforms and PDF documents because it displays a hierarchical view of the accessibility tags in these types of PDFs. You'll use this feature in Designer if you're working with PDF forms with fixed pages and fixed background artwork. You add accessibility features to XFA PDFs with the Accessibility palette.
- Data View: When you open a form that's connected to a data source, the Data View palette shows you a
  graphical representation of your form's data elements. You can associate your forms with data sources through
  a process called data binding. You can bind your form objects to an XML Schema, a Sample XML Data file, an
  Adobe Data Model, a WSDL (Web Services Description Language) file, or an OLEDB (Object Linking and
  Embedding Database).

Tab Order: The Tab Order palette shows all your form objects in a list that corresponds to the order that a user will see when tabbing through the form. You can change your form's tab order with this tool. The default tab order for Designer forms is left to right and top to bottom. If you don't see this palette, choose Window – Tab Order.



Connection Properties	
Select XML Schema File:	~
.\expenseReport.xsd	
Options	
Use XML Data Root Element Name:	expenseReport
✓ Embed XML Schema	
Transform Incoming Data	
XSLT File:	
Transform Outgoing Data	
XSLT File:	
< <u>B</u> ack F	inish Cancel <u>H</u> elp

The Data View palette showing the schema binding on the SmartDoc Expense Report form.

#### **The Right Palettes**

The area on the right includes palettes you'll use to create and edit your form objects:

- **Font:** The Font palette enables you to edit the font family, size, and style of text in your objects. Many interactive form objects like Text Fields have both a caption and a value font property that can be set independently.
- Paragraph: The Paragraph palette enables you to edit the alignment, indents, and line spacing of your text.
- Object Library: The Object Library palette provides a collection of all available form objects. You can easily drag and drop form objects from this palette onto your form layout.
- Fragment Library: The Fragment Library palette provides a collection of your form fragments. Form fragments
  are reusable form parts that are saved as separate files. These fragments are ideal if you're creating or managing
  numerous forms that use the same form parts.
- Object: You use the Object palette to modify the properties of your form's interface objects. As you work with this palette, you'll learn that it's very useful and very adaptive. It enables you to edit and customize the most important aspects of your objects without having to provide any custom JavaScript. It's flexible because it reconfigures its options based on the object you select. For instance, if you select a master page object, you'll see the Master Page and Pagination tabs on the Object palette.
- Layout: The Layout palette works hand in hand with the Layout Editor. As you make changes to your object in the Layout Editor, they are reflected here, and vice versa.
- Border: Most of the information in the Border palette is self-explanatory. However, it's important to note that
  these border properties affect the entire object, not just the editable portion of the field. The entire area
  surrounding your field and caption will be outlined with a border that you set with this palette. If you want to
  edit the border around your field, use the Appearance property on the Field tab of the Object palette.
- Accessibility: You can use the Accessibility palette to set Screen Reader properties for your forms. You can set
  several different options for each field on your form; you'll learn more about this later.

Text Fiel	d	       	Border palette
Text Fiel	d		The Appearance property on the Field tab of the Object palette

The Border palette settings outline the entire object, but the Appearance property in the Object palette enables you to outline just the field.

### **The Script Editor**

By default, the Script Editor is located directly above the Layout Editor and below the menu bar. You use this tool to create and edit scripts, and it's usually docked at the top of the Designer workspace. Scripts are an important part of smart forms because they enable you to customize the functionality of your forms at both the client and the server level. You'll learn more about this later in the manual.

### The Report Palette

By default, the Report Palette is located directly below the Layout Editor and it's usually docked at the bottom of the Designer workspace. This palette displays messages about your Designer file so you can correct issues as you work.

### Adobe XFA and XDP

Designer creates forms based on the Adobe XML Forms Architecture (XFA). You will save these forms as XML Data Packets. (\*.xdp). Designer forms can be rendered as many different types of PDFs and also as HTML forms. Designer enables this flexibility because it creates well-structured XFA to describe each aspect of your form. For instance, this is the well-structured XFA that describes a Text Field.

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<text:< td=""><th>&gt;Text Field</th><th></th><td></td><td></td></text:<>	>Text Field			

## Saving

When you save your Designer file, you need to consider how it will be used. The following is a list of file format options available in Designer. You'll learn how and when to use these formats throughout the training.

### **File Formats**

- Adobe Static PDF Form (\*.pdf): Saves forms as static PDFs based on the Acrobat and Adobe Reader target version specified in the form properties. Even if you specify a dynamic, flowable layout, this type of PDF form will still be static and will not rerender in response to user action. The fields on this form type can be interactive or non-interactive.
- Adobe Dynamic XML Form (\*.pdf): Saves forms as dynamic PDFs based on the Acrobat and Adobe Reader target version in the form properties. In this case, a dynamic, flowable layout will rerender in response to user action. A user can add or remove table rows and even entire form sections with this type of PDF.
- Adobe XML Form (\*.xdp): Saves forms in the native XML-based file format created by Designer. Use this option
  if you'll be using and AEM Forms Server to render PDF or HTML forms. The form design can contain dynamic
  and interactive elements.
- Adobe Designer Template (\*.tds): Saves the basic structure for a form as a template. It can contain components and settings, such as fonts, page layout, formatting, and scripts. Use it as a starting point for a new form.
- Adobe Designer Style Sheet (\*.xfs): Saves the internal style sheet in the form as an external style sheet. Style sheets can be used to provide consistent formatting to all your forms. Style sheets can control the look of caption and field value text, the appearance of object borders and background colors, as well as the size and style of Radio Buttons and Check Box objects.

### **Options for PDFs**

When you create a PDF, Designer provide a few additional parameters. You can select these parameters in the Form Properties dialog. Select **File – Form Properties – Save Options**.

Form Properties	<b>X</b>
Info Defaults Run-time Formatting Default Fonts Form Validation Server Variables PDF Security PDF Print Options Compatibility Preview Save Options Data Binding	PDF ✓ Generate Accessibility Information (Tags) for Acrobat Generate Log File When Saving ✓ Embed Fonts These options apply only when saving form designs as PDF files. They do not apply to PDF files rendered using LiveCycle Forms ES or documents rendered using LiveCycle Output ES.

This is a summary of each option and you will see more details in the training.

#### – Generate Accessibility Information (Tags) for Acrobat

This option is necessary to make your PDF forms accessible for devices like screen readers.

#### Generate Log File When Saving

This option will generate a log file which you can view in your Report palette.

Embed Fonts

This option will put specific font information in your PDF file. On one hand this is beneficial because you can be assured that your fonts will render properly on a form-filler's machine. On the other hand, selecting this option makes your file much larger, which results in longer download times for your user. The performance advantage of smaller PDF forms is so substantial that you should think twice before choosing to embed fonts.

# **Standard Objects**

Designer includes a library of standard form objects. These objects can be added to your form by dragging and dropping from the *Standard Object Library* to the *Layout Editor*.

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Object Library 🗵	Fragment Library					1
<ul> <li>Standard</li> </ul>						<b>≣</b> ⊿
■ Button	< Check Box	Circle	🖤 Content Area	🔊 Date Field	🖉 Date/Time Field	
<ul> <li>Decimal Field</li> </ul>	ᄰ Signature Field	📑 Drop-down List	📧 Email Submit Bu	itton	HTTP Submit Button	
短 Image	🔕 Image Field	🖊 Line	List Box	Mumeric Field	🟭 Paper Forms Barcode	
🚥 Password Field	Rint Button	Radio Button	Rectangle	Reset Button	💾 Subform	
III Table	T+ Text	I Text Field	🖉 Time Field	🗟 Signature Scribble	2	
Custom						:=.
<ul> <li>Barcodes</li> </ul>						: <b>::</b>

### Text objects and Text Field objects

These are often confused by new students. The *Text* object is simply static label text. You can use it for labels or for paragraphs of text. It is possible to make *Text* objects dynamic by introducing *floating fields*.

*Text Field* objects are interactive and dynamic. They provide users with a way to enter data on the form. *Text Field* objects support all the following features.

- Captions and interactive data entry fields
- Multiline text
- Display and validation patterns
- Rich Text

### **Numeric Field objects**

Like *Text Field* objects, *Numeric Field* objects should be used when you need to collect or display data. However, unlike *Text Field* objects, *Numeric Field* objects should be used for numeric data like floats, integers, and currency values. The following are characteristics of this object type.

- Numeric fields only accept numeric input.
- Numeric fields support display and validation patterns.
- Numeric fields are *context-sensitive* to the Locale setting. A U.S. Locale setting will use a comma to denote thousands (1,000.) while a German Locale setting will use a decimal point to denote thousands (1.000).

### Image objects and Image Field objects

These objects are like *Text* and *Text Field* objects because an *Image* object is also static, and an *Image Field* object is also interactive. If you need a static image on your form, use the *Image* object. If you need an image that the user can change at runtime, use the *Image Field* object.

### **Drop-down List objects**

A *Drop-down List* is an ideal form object for an enumeration or an array. It displays a list of items and facilitates the user's selection of an item from the list. Consider these points about a *Drop-down List*.

- It accepts custom user entries.
- Although it initially displays only one item, once it is selected, it shows the entire list.

#### List Box objects

A *List Box* is like a *Drop-down List* because it can display a list of items and facilitate the user's selection of an item from the list. However, keep the following points in mind when considering the use of a *List Box*.

- It requires more form real estate than a Drop-down List.
- It does not accept custom entries from the user.

### **Button objects**

Designer's standard *Button* object can be configured for any action your form may need. You can set the Control Type to Regular and write JavaScript on the click event to perform the functionality. Or, you can set the Control Type to Submit to configure a form submission. Here is a short summary of Control Types for the *Button* object.

- Select Regular for the Control Type to run the JavaScript in the click event.
- Select **Execute** for the Control Type to execute a database query or call a web service.
- Select Submit for the Control Type to submit the form's data to a web service or other endpoint.

### **Specialty Button objects**

In addition to the standard Button object, Designer also has these specialty Button objects.

- The Print Button initializes the Print Dialog box.
- The *E-mail Submit Button* submits the form to a specified email address.
- The HTTP Submit Button creates an HTTP submission of the form to a specified URL.
- The *Reset Button* removes all the data input from the form.

### Radio Button objects and Check Box objects

Radio Buttons objects are part of an exclusion group, but Check Box objects are not. Therefore, you will likely use Radio Button objects in cases of mutually-exclusive choices and Check Box objects in cases where one or more choices can be selected. You can set the style of either object to be a square or a circle. You also have a variety of check styles for each object.

### Date Field objects

The *Date Field* object presents the user with a visual calendar drop-down to select the date. Once selected, the date is automatically formatted according to the Display Pattern property of the object.



### Signature Field objects and Signature Scribble objects

In short, the *Signature Field* object is used for PDF forms and the *Signature Scribble* object is used for HTML forms. The *Signature Field* object requires the end user to have a valid Adobe Acrobat digital signature to sign. The *Signature Scribble* object can be signed simply by scribbling a signature with a mouse or a stylus. If the end user has a touch device like an Apple iPad, they can sign the *Signature Scribble* object with their finger.

### Exercises

#### Work with Objects

In this exercise you will be adding the different interactive elements to your form. You will be setting certain properties for each of the elements so that the element is relevant and works well in your form.

- 1. Open ExpenseReport2020\_start.xdp from your Student Files.
- 2. Save the file as <yourname>ExpenseReport<year>.xdp.
- 3. Select File Form Properties.
- 4. Enter <your name> Expense Report <year> for the Title.
- 5. Enter This is my exercise file from the SmartDoc training class for the Description.
- 6. Enter <**your name**> for the Author.

Form Properties			<b>••••</b>
Info Defaults	<u>F</u> ile:	artDoc Training\Designer\Net	w Student Files\jptExpenseReport2020.xdp
Run-time Formatting	<u>T</u> itle:	JPT Expense Report 2020	
Default Fonts Form Validation Server Variables PDF Security PDF Print Options Compatibility	Description:	This is my exercise file from t	the SmartDoc training class.
Preview Save Options	<u>A</u> uthor:	J.P. Terry	Creation Date:
Data Binding	Contact:		Version:

*Note:* This metadata will appear in AEM after the XDP file is uploaded to an AEM Server.

7. When you are done, click OK.

- 8. Expand your **Drawing Aids** palette. If you don't see your **Drawing Aids** palette, you can select **Window Drawing Aids** to display the palette.
- 9. Notice that the X Interval is set to 16/in and the Y Interval is also set to 16/in. This will produce a 1/16 inch grid.
- 10. You can close the Drawing Aids palette now by clicking the small X in the top-right corner.
- 11. Select View Grids & Guidelines Show Grid.
- 12. Select View Grids & Guidelines Snap to Grid.

🔯 Designer - [Expe	enseReport2020_start.xdp]		
📑 File Edit Vie	w Insert Table Layout	Tools	s Window Help
	Rulers		100% 🔻 🛞 🐻 🔛
	Grids & Guidelines	•	Show Grid Ctrl+'
	Objects	•	▶ ✓ Snap to Grid Shift+Ctrl+'
Hierarchy 🛛 🗸	Object Editor Subform Indicators Table Visual Aids		Show Guidelines Snap to Guideline es ML Source rev
expenser	Design View Master Pages		
⊕- □ Pag ⊕- □ page1	Preview PDF Preview HTML	F5 F4	SmartDoc Expense Report

- 13. Drag and drop a Text Field object from the Standard Library to the employee subform on page1.
- 14. With the Text Field selected, enter **Email** for the Caption property. This property is located on the *Field* tab of the *Object* Palette.
- 15. Select the *Binding* tab and enter **email** as the Name for the object.
- 16. Click the *Field* tab and select **Custom** for the Appearance property (*see illustration*). The Custom Appearance dialog box will open.
- 17. Select Edit Together and select Solid for the Edges (see illustration).

Object R Layout Accessibility Border	Custom Appearance
Field     Value     Binding       Type:     IText Field     Image: State St	- Borders Edges: Edit Together Solid  0.0069in
Appearance: Sunken Box Allow M Underlined Limit Ler Solid Box Limit Ler Sunken Box Allow Pr Custom Keep with next	Solid Dashed

- 18. Enter **0.0125in** for the line size and select **Gray-25%** for the color (see illustration below).
- 19. Select a round corner and enter **0.05in** for the Radius.
- 20. Select **Solid** for the *Background Fill* and select **White** for the Fill Color (see illustration below).

Custom Appearance	Custom Appearance	
- Borders Edges: Edit Together ▼	- Borders Edges: Edit Together 💌	
□ Solid    0.0125in	□ Solid ▼ 0.0125in ∠▼	
Corners: Corners: Radius: More Colors	Corners:	
Omit Border around Page Breaks	Omit Border around Page Breaks	
- Background Fill	- Background Fill	
Style: Solid 🔻 🗞 🗸	Style: Solid V 🖉 🖉 V	
	More Colors	
OK Cancel		

- 21. Click **OK** when you are done.
- 22. Select Limit Length and enter 255 for Max Chars.
- 23. Select the Value tab of the Object palette.
- 24. Select User Entered Required.
- 25. Select the *Layout* palette and change the *Caption Position* from Left to **Top**.
- 26. Enter **0.25in** for the Caption Reserve.
- 27. Enter **Oin** for each of the four margins.
- 28. Enter **.5in** for *X* and **1.1875in** for *Y*.
- 29. Enter **2.5in** for *Width* and **0.5625in** for *Height*.
- 30. Open the Font palette if it is not already opened.
- 31. Click Currently editing Caption and Value properties in the Font Palette and select Edit Caption.

		• ×
Font 🗷 Paragrap	1	/= <u>.</u>
Currently editing Capt	tion and Value	•
Myriad Pro	T 10	Edit Caption and Value
Style: B - I -	U - HE -	Edit Caption
Style. —   -		Edit Value
<u>A</u> ª Opt	<b>¦T</b> 100%	
AY 0	<b>I</b> 100%	

- 32. Select Arial and 10pt for the caption font.
- 33. Select Gray-80% for the color (see illustration).

Font Paragra	ph			• ×
Currently editing Ca	ption pro	perties		
Arial	•	тГ 10	0 🔻	
Style: <b>B</b> - <b>I</b> -	- <u>U</u> -	HBC 🛨		
≜‡ Opt	$\mathbf{IT}$	100%	Grav-80%	
A¥ 0	$\mathbf{T}$	100%		
Auto Kern				
			More Colors	- x

- 34. Click Currently editing Caption properties in the Font Palette and select Edit Value.
- 35. Select Georgia and 10pt for the value font.
- 36. Select Edit Copy Multiple
- 37. Enter 2 for Number of Copies.
- 38. Select No Vertical Movement.
- 39. Select Place to the Right.
- 40. Select Offset By and enter 2.5in.

Copy Multiple	<b>—</b>
Number of Copies: 2	
Vertical Placement <ul> <li>Place <u>A</u>bove</li> <li>Place <u>B</u>elow</li> <li>No Vertical Movement</li> </ul>	Vertical Spacing         Image: Description of the second
Horizontal Placement Place to the <u>L</u> eft Place to the <u>R</u> ight No <u>H</u> orizontal Movement	Horizontal Spacing Touching Offset By: 2.5in

- 41. Click **OK** and your 2 new fields will be created.
- 42. With all three fields selected, click Edit Copy Multiple.
- 43. Enter 1 for Number of Copies.
- 44. Select Place Below for Vertical Placement.
- 45. Select **Offset By** and enter **.6875in** for *Vertical Spacing*.

- 46. Select No Horizontal Movement.
- 47. Click **OK**.

Your form should now look like this.

SmartDoc Expense	Report			
Smartboc Expense	тероп			
Email	Email	Emoil	••••••	
ETHAII				
		<b>2</b>		ß
	······	······		
Email	Email	Email		
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		•••••••••••••••••••••••••••••••••••••••	•	-0

48. Select Text Field #2 and enter **firstName** for the name and **First Name** for the caption.

Note: You can change the name in the Hierarchy palette and the caption in the Field tab of the Object palette.

- 49. Select Text Field #3 and enter lastName for the name and Last Name for the caption.
- 50. Select Text Field #4 and enter **reportName** for the name and **Report Name** for the caption.
- 51. Select Text Field #5 and enter clientName for the name and Client Name for the caption.
- 52. Select Text Field #6 and enter **total** for the name and **Total** for the caption.
- 53. Select **clientName** and change the Type to **Drop-down List**. The Type property can be found on the *Field* tab of the *Object* palette.
- 54. Click Add (the plus icon) on List Items (see illustration).
- 55. Enter Walmart as a List Item in the new Drop-down List.

	•	, x
Object 🛛	Layout Border Accessibility	
Field Va	lue Binding	
Туре: 📑 🛙	Drop-down List 🔹	
Caption:	Client Name	
Appearance:	Custom 🔻	
List Items:		
Text Walmart	Add	

- 56. Click Add (*the plus icon*) again and add Amazon, Target, Costco, Home Depot as *List Items*. You will need to click Add each time to enter a new list item.
- 57. Select **total** and change the Type to **Numeric Field**. The Type property can be found on the *Field* tab of the *Object* palette.
- 58. Click the **Patterns** button.

- 59. Make sure the field has a useful Display Pattern. Here is one suggestion: num.currency{}
- 60. Click **OK**.
- 61. Select each of your 6 text fields and set the Data Binding property to **Use name**. You can find this in the Binding tab of the Object palette. This is likely the default value.
- 62. Click **Preview PDF** to see your form in action.
- 63. Enter values for your fields.

You should see something that looks like this (see illustration).

Email		First Name	Last Name	
jp@smartdoctech.com		James	Terry	
Report Name		Client Name	Total	
Adobe Training for	Target	Target	\$300.00	
		Walmart Amazon		
Week Of:	Category	Target Costco		Amount