

# Visualforce Cheat Sheet

## Overview

Salesforce1 platform provides Visualforce and Lightning frameworks to build custom applications. Visualforce uses extensible, "custom markup that ties closely with server side Salesforce Apex technology to allow developers to rapidly build MVC web applications.

#### **Getting Started**

Enable Developer Mode by clicking *Your Name* | Setup | My Personal Information | Personal Information | Edit. Select the Development Mode checkbox to enable an inline Visualforce editor. To create a page, navigate to a URL based on your current instance, like:

https://<instance>.salesforce.com/apex/helloWorld

All Visualforce page markup lies within an <apex:page> tag. Here's a simple page:

<apex:page showHeader="false">

<h1>Hello World</h1>

</apex:page>

All tags take an optional or required set of attributes, such as showHeader above. Use the inline editor auto-completion, or the Component Reference, to determine the attributes for components.

List all Visualforce pages and Apex classes by navigating to *Your Name* | Setup | Develop.

#### Example

Visualforce supports auto-generated standard controllers, as well as extensions, to minimize the amount of coding needed. Here's an example of a Visualforce page that uses a custom controller:

<apex:page showHeader="false" controller="Hello">
 <apex:form>
 <apex:commandButton value="{!theText}"/>
 <apex:commandButton value="G0">
 action="{!action}" reRender="dynamic"/>
 </apex:form>
 <apex:outputPanel id="dynamic">
 {!theText}
 </apex:outputPanel>
 </apex:outputPanel><//apex:page>

This Visualforce page displays an input field and a button labeled **Go**. When clicked, it sends the value of the field to the controller, which performs an action on it. Here, it duplicates the input. The page renders the result using an AJAX update. Here's the controller:

public class Hello {

```
public PageReference action() {
   theText = theText + theText;
   return null;
}
```

public String theText {get;set;}

## Core Tags

Here are core tags that often make up a Visualforce page:	
<apex:page></apex:page>	The obligatory outer tag.
<apex:includescript></apex:includescript>	A link to a JavaScript library, often in a static resource.
<apex:stylesheet></apex:stylesheet>	A link to a CSS stylesheet, often in a static resource.

## **Template System**

Template components let you create Visualforce pages that act as templates, having named areas—inserts—that must be filled when the template is used.

<apex:insert></apex:insert>	Declares a named area that must be defined.
<apex:composition></apex:composition>	Adds the defined template.
<apex:define></apex:define>	Provides content for the inserts.

## AJAX and JavaScript

The *reRender* attribute on action tags such as <apex:commandButton> lets you refresh a part of a page. The following tags provide additional AJAX and JavaScript support:

<apex:actionfunction></apex:actionfunction>	Define JavaScript functions to be called from JavaScript code.
<apex:actionpoller></apex:actionpoller>	A timer that sends an AJAX update request at specified interval.
<apex:actionregion></apex:actionregion>	Defines an area in a page that demarcates which components should be processed when AJAX requests generate.
<apex:actionstatus></apex:actionstatus>	A component that displays the status of an AJAX update request.
<apex:actionsupport></apex:actionsupport>	Adds asynchronous refresh support to a component.

#### **Core Form**

Here are the core components used in forms. These should be embedded within a single <apex:form> component on a page:

<apex:form></apex:form>	Container for input components.
<apex:commandbutton></apex:commandbutton>	A form button used to submit or reset a form.
<apex:commandlink></apex:commandlink>	An HTML link that performs an action.
<apex:inputcheckbox></apex:inputcheckbox>	An HTML input element of type checkbox.
<apex:inputfield></apex:inputfield>	Input element that corresponds to a field on a standard or custom object.
<apex:inputfile></apex:inputfile>	An input field to upload a file.
<apex:inputhidden></apex:inputhidden>	An HTML input element of type hidden.
<apex:inputsecret></apex:inputsecret>	An HTML input element of type password.
<apex:inputtext></apex:inputtext>	An HTML input element of type text.
<apex:inputtextarea></apex:inputtextarea>	An HTML input element of type text area.
<apex:selectlist></apex:selectlist>	A list of options for radio buttons or checkboxes.
<apex:selectradio></apex:selectradio>	A set of related radio button input elements, displayed in a table.
<apex:selectoption></apex:selectoption>	A possible value for the <apex:selectcheckboxes> or <apex:selectlist> components.</apex:selectlist></apex:selectcheckboxes>
<apex:selectcheckboxes></apex:selectcheckboxes>	A set of related checkbox input elements, displayed in a table.
<apex:selectoptions></apex:selectoptions>	A collection of values for the <apex:selectcheckboxes>, <apex:selectradio>, or <apex:selectlist> components.</apex:selectlist></apex:selectradio></apex:selectcheckboxes>

## Core Output

Mirroring many of the Core Form Components, these components are used for outputting text:		
<apex:outputfield></apex:outputfield>	A read-only display of a label and value for fields on custom objects.	
<apex:outputlabel></apex:outputlabel>	A label for an input or output field.	
<apex:outputlink></apex:outputlink>	A link to a URL.	
<apex:outputpanel></apex:outputpanel>	A set of content that is grouped together, rendered with an HTML <span> tag, <div> tag, or neither.</div></span>	
<apex:outputtext></apex:outputtext>	Displays styled or escaped text in a page.	

## Tables and Lists Output

These components are use	d to generate tables or lists by iterating over a collection:
<apex:datatable></apex:datatable>	An HTML table.
<apex:column></apex:column>	A single column in a table.
<apex:datalist></apex:datalist>	An ordered or unordered list of values.
<apex:facet></apex:facet>	A placeholder for content that is rendered in a specific part of the parent component.
<apex:panelgrid></apex:panelgrid>	An HTML table element that lays out its components in consecutive cells.
<apex:panelgroup></apex:panelgroup>	A container for multiple child components so that they can be displayed in a single panelGrid cell.
Miscellaneous	HTML
These components genera	te HTML for embedding flash, iframes and images:
<apex:flash></apex:flash>	A Flash movie, rendered with object and embed tags.
<apex:iframe></apex:iframe>	Creates an iframe in a page.
<apex:image></apex:image>	A graphical image, rendered with an img tag.



# **Miscellaneous Visualforce**

1	These components provide Visualforce messages, iteration, and include functionality:	
•	<apex:repeat></apex:repeat>	An unformatted iteration component.
	<apex:message></apex:message>	A message for a specific component, such as a warning or error.
•	<apex:messages></apex:messages>	All messages that were generated for all components on the current page.
	<apex:include></apex:include>	Inserts a second Visualforce page into the current page.
•	<apex:param></apex:param>	Lets parameters be fed into other components.
•	<apex:scontrol></apex:scontrol>	An inline frame that displays an s-control.
•	<apex:variable></apex:variable>	A local variable representing an expression.

## Default Look and Feel

CRUD and other screens have a standard look and feel. The following components generate output that conforms to that look and feel:

<apex:detail></apex:detail>	The standard detail page for a particular object.
<apex:enhancedlist></apex:enhancedlist>	The list view picklist for an object, including its associated list of records.
<apex:listviews></apex:listviews>	The list view picklist for an object, including its associated list of records.
<apex:relatedlist></apex:relatedlist>	A list of records that are related to a parent record with a lookup or master-detail relationship.
<apex:pageblock></apex:pageblock>	Defines a visual block within a page.
<apex:pageblockbuttons></apex:pageblockbuttons>	Defines buttons related to a block.
<apex:pageblocksection></apex:pageblocksection>	A section of data within a <apex:pageblock> component.</apex:pageblock>
<apex:pageblocksectionitem></apex:pageblocksectionitem>	A single piece of data in a <apex:pageblocksection> that takes up one column in one row.</apex:pageblocksection>
<apex:pageblocktable></apex:pageblocktable>	A list of data displayed as a table within either a <apex:pageblock> or <apex:pageblocksection> component.</apex:pageblocksection></apex:pageblock>
<apex:pagemessage></apex:pagemessage>	Displays custom messages.
<apex:pagemessages></apex:pagemessages>	Displays all messages that were generated for all components on the page.
<apex:panelbar></apex:panelbar>	A page area that includes one or more <apex:panelbaritem> tags that can expand.</apex:panelbaritem>
<apex:panelbarltem></apex:panelbarltem>	A section of a <apex:panelbar> that can expand or collapse.</apex:panelbar>
<apex:sectionheader></apex:sectionheader>	A title bar for a page.
<apex:tab></apex:tab>	A single tab in a <apex:tabpanel>.</apex:tabpanel>
<apex:tabpanel></apex:tabpanel>	A page area that displays as a set of tabs.
<apex:toolbar></apex:toolbar>	A toolbar that can contain any number of child components.
<apex:toolbargroup></apex:toolbargroup>	A group of components within a toolbar.

## **Custom Components**

Create your own components that will reside in the c namespace, for example <c:helloWorld/>:

<apex:component></apex:component>	The outer tag that starts the definition of a component.
<apex:attribute></apex:attribute>	A definition of a typed attribute on a custom component.
<apex:componentbody></apex:componentbody>	A place holder for content injected into a component.

Sites

Sites is based on Visualforce pages, and the the following tags provide additional functionality:	
<site:googleanalyticstracking></site:googleanalyticstracking>	Used to integrate Google Analytics.
<site:previewasadmin></site:previewasadmin>	Shows detailed messages in administrator preview mode.

## Messaging

Visualforce can also be used to create email templates:

<messaging:attachment></messaging:attachment>	Appends an attachment to the email.
<messaging:emailheader></messaging:emailheader>	Adds a custom header to the email.
<messaging:emailtemplate></messaging:emailtemplate>	Defines a Visualforce email template.
<messaging:htmlemailbody></messaging:htmlemailbody>	The HTML version of the email body.
<messaging:plaintextemailbody></messaging:plaintextemailbody>	The plain text (non-HTML) version of the email body.

for a record, as well as its list of followers. <chatter:follow>       Renders a button for a user to follow or unfollow a Chatter record.         <chatter:followers>       Displays the list of Chatter followers for a record.         Workflow       Components that present your process workflow:         <flow:interview>       Embeds a Flow interview in the page.         Global Variables       These reference general information about the current user and your organization on a Visualforce page:         \$Action       Reference standard actions on objects.         \$API       Refer to API URLs or sessions IDs.</flow:interview></chatter:followers></chatter:follow>		icas nave :	additional components available:
<ideas:profilelistoutputlink>       A link to the page displaying a user's profile.         Knowledge       You can embed Knowledge functionality on your pages:         <knowledge:articlecasetoolbar>       UI component used when an article is opened from the case detail page.         <knowledge:articleexetoolbar>       A loop on a filtered list of articles.         <knowledge:articlefipelist>       A loop on all available article types.         <knowledge:articletypelist>       A loop on a subset of the category hierarchy.         Chatter       Chatter UI widgets:         <chatter.feedwithfollowers>       An integrated UI component that displays the Chatter feed for a record.         <chatter.feedwithfollowers>       An integrated UI component that displays the Chatter feed for a record.         <chatter.feedwithfollowers>       Displays the Chatter follower for a necord.         <chatter.followers>       Displays the list of Chatter follow or unfollow a Chatter followers         <chatter.followers>       Displays the list of Chatter followers for a record.         <chatter.followers>       Embeds a Flow interview in the page.         Clobal Variables       Embeds a Flow interview in the page.         SAtion       Reference sandard actions on objects.         SAPI       Reference a component from within, for example, JavaScript         SComponent       References a custom label.         SObjectTyp</chatter.followers></chatter.followers></chatter.followers></chatter.feedwithfollowers></chatter.feedwithfollowers></chatter.feedwithfollowers></knowledge:articletypelist></knowledge:articlefipelist></knowledge:articleexetoolbar></knowledge:articlecasetoolbar></ideas:profilelistoutputlink>	•		
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<chatter:feedwithfollowers>       An integrated UI component that displays the Chatter feed for a record, as well as its list of followers.         <chatter:follow>       Renders a button for a user to follow or unfollow a Chatter record.         <chatter:followers>       Displays the list of Chatter followers for a record.         Workflow       Components that present your process workflow:         <flow:interview>       Embeds a Flow interview in the page.         Global Variables       Embeds a Flow interview in the page.         Shater record       Reference standard actions on objects.         \$API       Reference a component from within, for example, JavaScript ScurrentPage         \$CurrentPage       Reference a custom label.         \$ObjectType       Access metadata of objects.         \$Graphication       Access information about the company profile.         \$Page       The way to reference a Visualforce page.         \$CurrentPage       References a custom label.         \$ObjectType       Access information about the company profile.         \$Page       The way to reference a Visualforce page.         \$Resource       Used for accessing static resources.         \$SControl       References an existing custom s-control by name.         \$Site       Reference site information, such as domain name.         \$System.OriginDateTime       Represents the li</flow:interview></chatter:followers></chatter:follow></chatter:feedwithfollowers>	Add Chatter UI widgets:		
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Upload static resources, such as stylesheets and images, into a zip, and then reference them using the URLFOR formula and \$Resource merge field. For example, if you've uploaded images/Blue.jpg into a zip called TestZip, reference it like this: <apex:includeScript value="{!\$Resource.jquery}"/>

## **Apex Support**

Here are Apex classes, available in the ApexPages namespace, which can be used to reference Visualforce functionality:

Create and invoke actions on an object.
Create messages to be displayed, usually for errors.
A reference to a Visualforce page.
Specifies one of the possible values for the selectCheckboxes, selectList, or selectRadio components.
Reference the standard Visualforce controllers.
Reference standard set controllers for iteration.

