

Questions for Google Web Toolkit

Category: Command Line - (1 questions)	
GWT - how to create an application skeleton from command line	webAppCreator -out MyApplication com.mycompany.MyApplication
Category: UI Elements - (88 questions)	
GWT - A flexible table that creates cells on demand. It can be jagged	FlexTable
GWT - A widget that contains arbitrary text, not interpreted as HTML.	Label
GWT - A panel that lays all of its widgets out in a single horizontal column.	HorizontalPanel
GWT - A panel that lays all of its widgets out in a single vertical column.	VerticalPanel
GWT: the container for the dynamic elements of your application. It is at the top of any GWT user interface hierarchy.	RootPanel
GWT: By default (that is, if you don't add any placeholders in the host page) the Root panel wraps the _____	body element RootPanel.get() // Default. Wraps the HTML body element. RootPanel.get("stockList") // Wraps any HTML element with an id of "stockList"
GWT: Panel that contains HTML and can attach child elements	HTMLPanel
GWT: Panel whose child widgets are contained within cells of a table	CellPanel
GWT: LayoutPanel - how to add children in UIBinder	contained in <g:layer> elements
GWT: StackPanel subclass that allows rounded corners	DecoratedStackPanel
GWT: 2 split layout panels classes that are older and only work in quirks mode	VerticalSplitPanel HorizontalSplitPanel
GWT: new version panel that combines HorizontalSplitPanel and VerticalSplitPanel	SplitLayoutPanel
GWT: 2 classes that subclass HTML Table class	GridFlexTable
GWT: class for wrapping HTML <input type="file"> element	FileUpload - must be used in FormPanel
GWT: UIObject method for set/get tool tip	setTitle / getTitle

GWT: UIObject methods for setting element height / width	setHeightsetWidthsetSize(width, height)
GWT: UIObject methods to set / detect visibility	isVisiblesetVisible
GWT: UIObjects method to remove set of events from element's event list	unsinkEvents
GWT: Widget method to add a native event handler	addDomHandler
GWT: Widget method attach a handler to element	addHandler
GWT: widget method to fire an event on child of element	delegateEvent
GWT: widget method to fire an event	fireEvent
GWT: widget - how to grab/set panel defined layout information associated with widget	getLayoutDatasetLayoutData
GWT: class to wrap HTML <a> tag	Anchor
GWT: 3 classes for Form buttons	ButtonResetButtonSubmitButton
GWT: class that provides rich text editor if browser supports	RichTextArea
GWT: widget with arbitrary HTML element that uses to display inline	InlineHTML
GWT: InlineHTML method that creates new InlineHTML wrapping an existing element	InlineHTML.wrap(element)
GWT: UIObject method to grab/set objects underlying DOM element	getElementsetElement
GWT: UIObject method to set elements dimensions in pixels	setPixelSize(width, height)
GWT: widget method to grab the # of handlers listening to certain event types	getHandlerCount
GWT: widget method to detect if element has ever been attached to DOM	isOrWasAttached
GWT: if you use Anchor just for changing history states use _____ instead	Hyperlink
GWT: widget methods that must be overridden if element contains children that are not logically connected (just by physical DOM level)	doAttachChildrendoDettachChildren

GWT: UIObject method to grab objects height / width including border/margin/padding	getOffsetHeightgetOffsetWidth
GWT: panel that lays out its children using default HTML layout behavior	FlowPanel
GWT: DockLayoutPanel - how to specify location of child widgets in UIBinder	<g:north><g:east><g:south><g:west><g:center>
GWT: newer 2.0 version of DockPanel	DockLayoutPanel
GWT: panel that displays all of its child widgets in a "deck" where one can be visible at a time	DeckPanel
GWT: older panel that lays out its child widgets "docked" at outer edges with center taking left over space	DockPanel
GWT: panel widget that positions all children absolutely, allowing them to overlap	AbsolutePanel
GWT: 2 classes for wrapping IFRAME elements	FrameNamedFrame
GWT: abstract class for all text entry widgets	TextBoxBase
GWT: checkbox widget with no label	SimpleCheckBox
GWT: 2 CustomButtons built into GWT	PushButtonToggleButton
GWT: widget to implement a menu bar	MenuBar
GWT: widget to wrap elements	Image
GWT: wrapper for hidden form elements <input type="hidden">	Hidden
GWT: base class for buttons that support set # of button faces (hover, down, etc)	CustomButton
GWT: 2 implemented TextBoxBase widgets	TextBoxTextArea
GWT: CustomButton - how to set the text/image of particular face	1.) grab the particular face - getDownFace 2.) set with CustomButton.Face methods setTextsetHTMLsetImage
GWT: standard hierarchical tree widget	Tree with components Treeltem
GWT: separator that can be placed in a MenuBar	MenuItemSeparator
GWT: entries in MenuBar	MenuItem

GWT: tab layout for quirks mode	TabPanel or DecoratedTabPanel also use TabBar
GWT: class that implements an auto suggestion based on what user has typed in	SuggestBox
GWT: standards mode panel that represents a tabbed set of pages	TabLayoutPanel
GWT: standard date picker	DatePicker
GWT: calendar grid that represents the current view of a DatePicker	CalendarView
GWT: simple panel that wraps its contents in a scrollable area	ScrollPanel
GWT: when using a PopupPanel what are methods for graying out widgets behind it	setGlassEnabled setGlassStyleName
GWT: 2 panels that can "popup" over other widgets	PopupPanel DecoratedPopupPanel
GWT: panel that only renders after setVisible called; for lazy loading	LazyPanel
GWT: panel that wraps contents in HTML <form> element	FormPanel
GWT: SimplePanel that makes its contents focusable, so you can catch mouse/keyboard events	FocusPanel
GWT: base class for panels that contain only 1 widget	SimplePanel
GWT: abstract class for all widgets that contain other widgets	Panel
GWT: text box that shows a DatePicker when user focuses on it	DateBox
GWT: panel that extends PopupPanel adding draggable caption bar to the top	DialogBox
GWT: widget that is useful for creating a single widget out of an aggregate of multiple other widgets	Composite
GWT: panel that lays out its children in arbitrary layers	LayoutPanel
GWT: class for adding rounded corners to a widget	DecoratedPanel - only works in quirks mode

GWT: widget method to remove element from parent	removeFromParent
GWT: # of direct children that a Composite widget can have	1
GWT: 2 widget classes to display children vertically, displaying 1 at a time	StackPanelStackLayoutPanel
GWT: class that is an implementation of the HTML <fieldset> element	CaptionPanel
GWT: panel that shows content when user clicks in header	DisclosurePanel
GWT: on VerticalPanel what does .setCellHeight(cell, "100%") do	sets that cell to 100% of remaining vertical space
GWT: panel that stacks its children vertically in standards mode (without tables)	StackLayoutPanel
GWT: CustomButton - how to specify text/image to various faces in UIBinder	<g:upFace> , <g:leftFace>, etc.
GWT: interface that allows widgets to interact with any type of Panel	HasWidgets
GWT: CellPanel syntax to specify child widgets in UIBinder	<g:cell>
GWT: widget methods to listen to when element is added / removed from document	onLoadonUnload
GWT: UIObject methods to interact with style menus	addStyleName / getStyleName / removeStyleNameaddStyleDependentName / removeStyleDependentNamegetStylePrimaryName / setStylePrimaryName
GWT: abstract class for panels that contain multiple child widgets	ComplexPanel
GWT: how to set style elements on DOM element	DOM.setStyleAttribute(element, property, value)
GWT: call in Composite widget that sets its child widget	initWidget(child)
GWT: UIObject methods to grab positioning of object in pixel	getAbsoluteTopgetAbsoluteLeft
Category: Client Communication - (3 questions)	

GWT: an RPC service is defined by an interface that extends the GWT _____ interface	RemoteService
GWT: how to parse JSON data	JSONParser.parse()
GWT: how to encode parameters for Ajax calls	URL.encodeComponent
Category: Modules - (4 questions)	
GWT: What linkers are provided by Core.gwt.xml	std : The standard iframe-based bootstrap deployment model. xs : The cross-site deployment model. sso : This Linker will produce a monolithic JavaScript file. It may be used only when there is a single distinct compilation result.
GWT: how do you specify which linker to use in compiling modules	in module .gwt.xml file use the add-linker tag <pre><module> <inherits name="com.google.gwt.core.Core" /> <add-linker name="xs" /></module></pre>
GWT: purpose of <super-source> tag in .gwt.xml module definition	instructs the compiler to "re-root" a source path. This is useful for cases where you want to be re-use an existing Java API for a GWT project, but the original source is not available or not translatable. A common reason for this is to emulate part of the JRE not implemented by GWT. For example, suppose you want implement the UUID class provided by the JRE under java.util. Assume your project's module file is com/example/myproject/MyProject.gwt.xml. Place the source for the UUID class into com/example/myproject/jre/java/util/UUID.java. Then add a line to MyProject.gwt.xml: <pre><super-source path="jre"</pre>
GWT: in module .gwt.xml files what feature allows you to selectively replace classes based on user agent	deferred binding <pre><!-- old Mozilla, and Opera need a different implementation --> <replace-with class="com.google.gwt.user.client.ui.impl.FocusImplOld"> <when-type-is class="com.google.gwt.user.client.ui.impl.FocusImpl" /> <any> <when-property-is</pre>
Category: History - (5 questions)	
GWT: When the application wants to push a placeholder onto the browser's history stack, it simply invokes _____	History.newItem(token)

GWT: When the user uses the back button, a call will be made to any object that was added as a handler with _____	History.addValueChangeHandler()
GWT: interface that must be implemented by functions registered to handle history back actions	ValueChangeHandler interface, parses the new token (available by calling ValueChangeEvent.getValue()) and changes the application state to match.
GWT: how to add new history token	History.newItem
GWT: interface for intercepting history change events	HistoryListener interface
Category: Timer - (2 questions)	
GWT: how to schedule a onetime event with Timer	my_timer.schedule(milliseconds)
GWT: how to schedule Timer to periodically perform a task	myTimer.scheduleRepeating(milliseconds)
Category: Time related - (5 questions)	
GWT: Sometimes you want to break up your logic loop so that the JavaScript event loop gets a chance to run between two pieces of code, what allows this	DeferredCommand class// Set the focus on the widget after setup completes. DeferredCommand.addCommand(new Command() { public void execute () { dataEntry.setFocus(); } })
GWT: provides _____ class that helps perform long running calculations.	IncrementalCommand
GWT: class to break up long running processes	IncrementalCommand
GWT: how to add something to DeferredCommand to execute when system gets time	DeferredCommand.addCommand(new Command)
GWT: Function needed by IncrementalCommand Interface	boolean execute()keeps being called until it returns false
Category: XML - (1 questions)	
GWT: Class to handle parsing and building XML data	XMLParser
Category: Native Javascript - (6 questions)	
GWT: standard for including raw JavaScript in project	JavaScript Native Interface (JSNI)

GWT: how to wrap a native JavaScript method	<p>methods are declared native and contain JavaScript code in a specially formatted comment block between the end of the parameter list and the trailing semicolon. A JSNI comment block begins with the exact token <code>/*-{</code> and ends with the exact token <code>}-*/</code>.</p> <pre>public static native void alert(String msg) /*-{ \$wnd.alert(msg);}-*/;</pre>
GWT: way to use JSON objects and make them look like Java objects when we're coding	JavaScript overlay types to make it easy to integrate entire families of JavaScript objects into your GWT project.
GWT: how to get Window object when using JSNI	<code>\$wnd</code>
GWT: call to grab the base URL of module	<code>GWT.getModuleBaseURL()</code>
GWT: how to make a Java call from JSNI	<code>[instance expr.]@class-name::method-name(param signature)(arguments)</code>
Category: UIBinder - (12 questions)	
GWT: in UIBinder you can set style on a widget, not just HTML. Use the _____ attribute to override whatever CSS styling the widget defaults to	<code>styleName<g:PushButton styleName='{style.pretty}'>This button doesn't look like one</g:PushButton></code>
GWT: in UIBinder to add class names without clobbering the widget's baked in style settings, use the special _____ attribute	<code>addStyleNames<g:PushButton addStyleNames='{style.pretty} {style.hot}'>Push my hot button!</g:PushButton></code>
GWT: UIBinder - how to set properties in xml file	any underlying property that uses get / set syntax such as <code>setWidth</code> can be set in template <code><g:Label width='15em'>Hello there</g:Label></code>
GWT: in UIObjects how to tell object which UI Events to be a sink for	<code>sinkEvents(int eventBitsToAdd)</code>
GWT: what interface is required to use a widget in UIBinder template file	<code>HasWidgets</code>
GWT: in UIBinder syntax to be able to use <code>&nbsp;</code> in the xml file	by setting the DOCTYPE appropriately <code><!DOCTYPE ui:Binder 'http://dl.google.com/gwt/DTD/xhtml.ent'></code>
GWT: how to include external stylesheets in UIBinder	<code><ui:style src="MyUi.css"></code>

GWT: UIBinder syntax to attach event to a widget	<pre> user @UiHandler annotation in java file @UiHandler("button") void handleClick(..) { } </pre>
GWT: in UIBinder how to give a widget a name	<pre> user file ui:field="name" in xml then in .java file use annotation @UiField WidgetType name; </pre>
GWT: how to include stylesheet defs in UIBinder	<pre> <ui:style> then refer to it by class='{style.name}' or <ui:style field='otherStyle'> class='{otherStyle.name}' </pre>
GWT: syntax for using a set of widgets in UIBinder	<pre> must tie their package to an XML namespace prefix <ui:binder xmlns:g='urn:import:com.google.gwt.user.cli ent.ui'> then all google ui widgets can be used with prefix g<g:ListBox> </pre>
GWT: How to give code access to styles defined in UIBinder xml page	<pre> use the type attribute <ui:style type='com.my.app.MyFoo.MyStyle'> then in .java file interface MyStyle extends CssResource {String style1();String style2();} @UiField MyStyle style; </pre>
Category: UIObject - (6 questions)	
GWT: what style class is added automatically to all UIObjects such as, Button	By convention, GWT style names are of the form [project]-[widget] so the button widget has the style name gwt-Button
GWT: every UIObject has a primary style name that identifies the key CSS style rule that should always be applied to it. Use _____ to set it	setPrimaryName(String)
GWT: UIObjects (like Button) - more complex styling behavior can be achieved by manipulating an object's secondary style names. Secondary style names can be added and removed using _____ and _____	addStyleName(String) removeStyleName(String)
GWT: what are secondary styles in UIObjects and how to add	A dependent style name is a secondary style name prefixed with the primary style name of the widget itself. addStyleDependentName(String) ex: gwt-Button-readonly
GWT: UIObject dependent style names are powerful because they are _____	automatically updated whenever the primary style name changes.
GWT: In HorizontalPanel/VerticalPanel how to set horizontal alignment of cells	setCellHorizontalAlignment(cell, HorizontalAlignment.ALIGN_RIGHT)
Category: RPC - (5 questions)	

GWT: interface for handling RPC callbacks	AsyncCallback
GWT: interface used with catching response of RequestBuilder calls	RequestCallback
GWT: before making a call to server with RPC, how to create proxy instance	GWT.create(MyService.class)
GWT: class used to build an asynchronous request to server	RequestBuilder
GWT: how do you create an interface for GWT RPC	interface MyInt extend RemoteService
Category: Image Bundling - (6 questions)	
GWT: interface for bundling images	ImageBundle
GWT: call on ImageBundle to grab a particular image	.createImage
GWT: How to instantiate ImageBundle named MyImages	myImages = (MyImages) GWT.create(MyImages.class)
GWT: what interface is used to move resources from myapp.css to cache forever (.cache.html)	ClientBundle
GWT: how to add ClientBundle to project	add inherits tag to gwt.xml file<inherits name="com.google.gwt.resources.Resources" />
GWT: How to reference image file when implementing ImageBundle in pre 2.0	/** * @gwt.resource my_image.gif */public AbstractImagePrototype myImage();
Category: Testing - (2 questions)	
GWT: class to do GWT benchmarking in unit tests	extend Benchmark
GWT: class to extend to do JUnit testing of GWT	GWT-TestCase
Category: Code Generator - (3 questions)	
GWT: what class must be extended to write GWT generator	com.google.gwt.core.ext.Generator
GWT: how to tell GWT compiler which interface/classes to match to custom generator	in module XML file use: generate-with element
GWT: naming convention for code generator packages	don't put in client packages should end in .rebind package name
Category: Events - (59 questions)	

GWT: 3 interfaces for handling keyboard events	KeyUpHandlerKeyDownHandlerKeyPressHandler
GWT: SelectEvent method to grab the selected item	getSelectedItem
GWT: methods on KeyEvent to detect special keys being pressed	isAnyModifierKeyDownisAltKeyDownisControlKeyDownisMetaKeyDownisShiftKeyDown
GWT: MouseEvent methods to grab the mouse x/y position on user's display	getScreenXgetScreenY
GWT: interface for handling mouse click events	ClickHandler
GWT: Function to add click handler to button	.addClickHandler(ClickHandler handler)
GWT: what method must be implemented by ClickHandler interface	onClick(ClickEvent event)
GWT: 2 GWTEvent functions to determine if event is still accessible	isLive()assertLive()
GWT: GWTEvent methods to kill/revive the event	kill()revive()
GWT: BeforeSelectionEvent methods to detect cancellation / cancel selection event	isCancelled()cancel()
GWT: event for element closing	CloseEvent
GWT: DOMEvent method for grabbing/setting the native event	getNativeEventsetNativeEvent
GWT: DOMEvent methods for getting/setting element relative to which event coordinates will be measured	getRelativeElementsetRelativeElement
GWT: DomEvent method to stop the wrapped native event's default action	.preventDefault()
GWT: DomEvent method to stop propagation of underlying native event	.stopPropagation
GWT: 2 event classes for DOM blur / focus events	BlurEventFocusEvent
GWT: class for DOM change event	ChangeEvent
GWT: class for DOM context menu event (right click)	ContextMenuEvent
GWT: class for native error event	ErrorEvent
GWT: classes for click / double click events	ClickEventDoubleClickEvent

GWT: base class for key events	KeyEvent
GWT: class for native key press event	KeyPressEvent
GWT: KeyCodeEvent methods to detect arrow keys	isArrow(int Keycode)isLeftArrow()isUpArrow()
GWT: KeyPressEvent method to get the char code for this event	getCharCode
GWT: class that represents a native DOM load event	LoadEvent
GWT: class that represents a native lose capture event	LoseCaptureEvent
GWT: abstract class that represents mouse events	MouseEvent
GWT: MouseEvent methods to get mouse x/y position within browser windows client area	getClientXgetClientY
GWT: MouseEvent methods to grab the mouse x/y positions relative to a given element	getRelativeXgetRelativeY
GWT: MouseEvent methods to get mouse x/y position relative to the event's current target element	getX()getY()
GWT: MouseEvent methods to detect special keys being used during click	isAltKeyDownisControlKeyDownisMetaKeyDownisShiftKeyDown
GWT: 2 classes that represent mouse down / up events	MouseDownEventMouseUpEvent
GWT: 2 classes that represent mouse over / out events	MouseOutEventMouseOverEvent
GWT: MouseOutEvent method to grab target to which mouse was moved	getRelatedTarget
GWT: MouseOverEvent method to grab the target from which the mouse was moved	getRelatedTarget
GWT: class that represents a mouse movement	MouseMoveEvent
GWT: Event which represents a mouse wheel movement	MouseWheelEvent
GWT: MouseWheelEvent method to get amount of movement	getDeltaY

GWT: MouseWheelEvent method to detect direction of wheel movement	isNorth()isSouth()
GWT: class for a highlight event	HighlightEvent
GWT: class that represents a open event	OpenEvent
GWT: event that is fired when element is resized	ResizeEvent
GWT: class that represents a value change event	ValueChangeEvent
GWT: event fired when window is closing	Window.ClosingEvent
GWT: event fired when browser window is scrolled	Window.ScrollEvent
GWT: class that fires when event source is initialized	InitializeEvent
GWT: Class for event triggered on keyup / keydown events	KeyCodeEvent
GWT: CloseEvent method to grab the element being closed	getTarget
GWT: 2 events for selection of screen elements	BeforeSelectionEventSelectionEvent
GWT: MouseEvent method to grab the button value (which was clicked)	getNativeButton
GWT: 2 FormPanel events for form submission	FormPanel.SubmitEventFormPanel.SubmitCompleteEvent
GWT: Class that is logical event fired when widget displays a range of values to user	ShowRangeEvent
GWT: how to get the element that produced event	.getSource()
GWT: BeforeSelectionEvent methods to get / set item selected	getItemsetItem
GWT: Event class for access to underlying native browser event object	DomEvent
GWT: how to fire a native Dom event	DomEvent.fireNativeEvent
GWT: KeyCodeEvent method to get native key code	getNativeKeyCode
GWT: Class that gets a preview of native event	NativePreviewEvent

GWT: how to capture / uncapture mouse events to a specific widget	DOM.setCapture(Dom element)DOM.releaseCapture()
Category: ClientBundle - (15 questions)	
GWT: how to define constants and use on CSSResources	@defex: @def small 1px;border: small solid black;
GWT: in a CSSResource how to grab a reference to data resources (like cursor image)	@url myCursorUrl fancyCursorResource;.myClass { cursor: myCursorUrl, pointer; }
GWT: CSSResource syntax to turn off the automatic transformations of CSS code into right-to-left variant at compile time if the image has been marked for flipping	put the CSS in a @noflip block
GWT: CSSResource syntax to selectively suppress selector obfuscation	@external selectorname;
GWT: how to define what can be accessed through code in CSSResources	interface MyResources extends CSSResources { string small();}have to make a string for each reachable property
GWT: ClientBundle syntax to tell GWT to flip the image around y-axis	@Source("arrow.png")@ImageOptions(flipRt l=true);ImageResource pointer();annotation in @ImageResource
GWT: ImageResource syntax to tell GWT image is to be tiled	annotation @ImageOptions(repeatStyle)
GWT: how to make Client resource bundles available to UIBinder xml file	<ui:with field='res' type='com.my.app.Resource'>
GWT: CSSResource syntax to include images from ClientBundle that includes CSSResource	@sprite .myClass {gwt-image: "imageAccessor"; other: properties;}
GWT: CSSResource syntax to add browser specific property values that don't conform to CSS grammar like (I.E. expressions)	literal functiondiv-with-literal { top: literal("expression(...)"); }
GWT: CSSResource syntax for conditional CSS based on user browser or locale	@if user.agent safari gecko1_8 {}@if locale en {}@if !user.agent ie6 opera { }
GWT: CSSResource syntax for conditional CSS based on static function evaluation	@if (com.module.Foo.staticBooleanFunction()) { ... css rules ... }
GWT: CSSResource syntax to get value of zero-arg methods for CSS	value (....).myDiv { offset-left: value('imageResource.getWidth', 'px');}can be combined with @if

GWT: CSSResources syntax for run time substitution of static functions	only works with static methods <code>@eval userBackground com.modules.UserPreferences.getUserBack ground();div { background: userBackground}</code>
GWT: How to define an ImageResource in ClientBundle	interface Resources extends ClientBundle { @Source("logo.png");ImageResource logo(); }