

Autocomplete Interaction Storyboard

©2006 Yahoo! Inc.

The Yahoo! User Interface Library

<http://developer.yahoo.net/yui>

Actor/Event	Page Load	Mouse Over Input Field	Input Field Gains Focus	User Input Detected on Input Field	AC Data Requested	AC Container Opens	AC Container Data Is Refreshed with New Results	AC Data Retrieval Results in Error	AC Type-Ahead Pre-populates Input ¹	AC Container Closes	Mouse To AC Item	Mouse Away from AC Item	Arrow to AC Item	Arrow Away from AC Item	Selection Made	Selection Cleared	Input Field Loses Focus
<i>API Event (on AC object):</i>	(use DOM event)	(use DOM event)	textboxFocus Event	textboxKeypress Event	dataRequestEvent	containerExpand Event	dataReturnEvent	dataErrorEvent	typeAhead Event	containerCollapse Event	itemMouseOver Event	itemMouseOut Event	itemArrowTo Event	itemArrowFrom Event	itemSelectEvent or unmatchedItem SelectEvent	selectionEnforce Event	textboxBlur Event
<i>Page</i>															After selection is made, return or enter in the input field may post form.		
<i>Input Field</i>			May highlight, depending on browser.													Contents of field automatically cleared.	Loses default browser highlighting.
<i>Cursor</i>		Automatically becomes text cursor.															
<i>Carat</i>			Carat blinks in text field.						Typed-ahead portion of text is highlighted using OS-default highlight color. ²						In multi-select mode, delimiter is added and carat moves to end of input field for further text entry.	Carat remains in text input field.	Carat disappears.
<i>AutoComplete Container</i>	Not visible.	Not visible.	Not visible.	AC container unaffected until after widget delay has passed.	Default: Unaffected. Animation or other treatment could visually convey "loading" state.	Opens. Animation (slide down) is a built-in option, as are shadow and iFrame shim.	Changes to reflect new content. Animation is a built in option to ease the change in container size, if applicable.	Default: Closes.	No impact.	Closes. Animation (slide up) is a built-in option, as are shadow and iFrame shim.	No impact.	No impact.	If necessary, scrolls to reveal pre-selected item.	No impact.	Closes; close event fires.	If open, the Container closes.	Closes; close event fires.
<i>Moused-over Item in AC Container</i>											Highlightng treatment.	Highlighting treatment removed.	Pre-selection treatment, which is stronger than mouseover highlighting, applies.	Pre-selection treatment removed; returns to naked or moused-over treatment.			
<i>Pre-Selected Item in AC Container³</i>											No impact; pre-selection is stronger and takes precedence.	No impact.	Item being pre-selected gets pre-selection treatment.	Pre-selection treatment removed.			
	What indicators are present to suggest AC (e.g., in the case of content-filtering)	What happens when the mouse moves over the input field?	What happens when the user clicks in or tabs to the input field?	What happens when user input is detected in the input field?	What happens when the AC widget requests data?	What happens when the AC container opens?	What happens when the AC container, once open, gains a different data to display?	What happens when the AC widget requests data and gets malformed data (or other error occurs)?	What happens when AC autofills the input field with the top choice in the result set?	What happens when the AC container closes?	What happens when the mouse moves over an item in the AC container?	What happens when the mouse moves away from an item in the AC container?	What happens when an item is pre-selected using arrow keys?	What happens when an item in the AC container is de-selected using arrow keys?	What happens when a selection is made, via mouse click, enter key, or tab key?	What happens when the AC widget clears the input field because user selection did not match any valid options?	What happens when the input field loses focus (user clicks or tabs away, or submits the form)?

¹ TypeAhead is an optional setting; when selected, the AC widget will "complete" the user's entry with the characters needed to complete the first item in the returned set. The completion characters are "selected" in the input field, so additional typing deletes them. The first item in the AC container becomes pre-selected, as it would if arrowed to.

² Safari does not support scriptological text selection; TypeAhead does not prepopulate the input field in Safari.

³ An item becomes "pre-selected" by navigating to it via the arrow keys. It is not a *selection*, because it does not convey a final decision. However, it is a stronger gesture than when an item is moused-over, which is not taken to indicate a decision at all — but may convey an interest in the item or a desire for more information.