



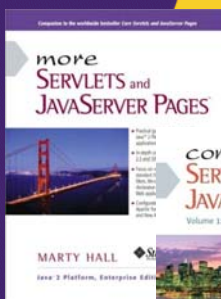
PrimeFaces Menus

Originals of slides and source code for examples: <http://www.coreservlets.com/JSF-Tutorial/primefaces/>
Also see the JSF 2 tutorial – <http://www.coreservlets.com/JSF-Tutorial/jsf2/>
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Marty is also available for consulting and development support

Taught by the author of *Core Servlets and JSP*, this tutorial, and JSF 2.2 version of *Core JSF*. Available at public venues, or customized versions can be held on-site at your organization.

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Topics in This Section

- Basic structure
- Displaying server results
- Redirecting to URLs
- Submenus
- Icons
- Menu options

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Basic Structure



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Basic Menu Structure

- **Big idea**

- Start with p:menubar, use p:submenu, then p:menuitem
 - You can also put p:menuitem directly in p:menubar
 - You can replace p:menubar with p:menu for menus that stay open, instead of ones that drop down on clicks
- p:menuitem can give an action (which submits the form normally) or a url (which redirects to that location)

- **Quick example**

```
<p:menubar>
  <p:submenu label="Menu label">
    <p:menuitem value="Item label" .../>
    <!-- More menu items -->
  </p:submenu>
  <!-- More submenus -->
</p:menubar>
```

Notice the inconsistency where you use "label" for menu labels, but you use "value" for menu item labels.

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Related Menu Types

- **Places you can use p:menuitem**

- p:menubar (shown in this tutorial)
- p:menu (menu that remains open)
- p:megaMenu (shows all submenus at once)
- p:breadcrumb (shows page hierarchy)
- p:dock (imitates dock from MacOS)
- p:stack (imitates stacks from MacOS)
- p:menuButton (a button that pops up a menu)
- p:splitButton (a button where part of it pops up a menu)
- p:panelMenu (uses accordion panels to display menus)
- p:tabMenu (uses tabs to display menu choices)
- p:slideMenu (slides menus into view)
- p:tieredMenu (displays submenus as overlays)

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Using Menus to Display Server Results



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The action Attribute

- **Big idea**
 - You use action just as you would with p:commandButton. You normally also use update and process as discussed in the earlier Ajax section.
 - The menubar must be inside h:form

- **Quick example**

```
<p:menuitem value="Item label"
            action="#{someBean.someMethod}"
            process="@form"
            update="some-id"/>

...
<h:outputText value="#{someBean.someProperty}"
              id="some-id"/>
```

Related Attributes

- **update**
 - The id or space-separated set of ids to update
 - Used exactly as in the Ajax lecture
- **process**
 - The id, space-separated set of ids, or special name (usually @form) to designate components to process on server
 - Used exactly as in the Ajax lecture
- **ajax**
 - As with p:commandButton, if you specify ajax="false", then the result is a normal form submission instead of an Ajax update
- **onclick, oncomplete, etc.**
 - Same as with p:commandButton.
 - Useful for popping up dialogs from menus.

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Example: HTML Outline

```
<h:form>
<p:menubar>
  <!-- Entries shown on next slide -->
</p:menubar>
<p:messages autoUpdate="true"/>
Enter message:
<p:inputText value="#{messageBean.message}"
              required="true"
              requiredMessage="Message cannot be empty"/>
<h2><h:outputText value="#{messageBean.message}"
                  id="messageDisplay"/>
</h2>
</h:form>
```

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Example: HTML for Menu

```
<p:submenu label="Actions">
  <p:menuitem value="Uppercase"
    action="#{messageBean.makeUpperCase}"
    process="@form" update="messageDisplay"/>
  <p:menuitem value="Lowercase"
    action="#{messageBean.makeLowerCase}"
    process="@form" update="messageDisplay"/>
  <p:menuitem value="Doubled"
    action="#{messageBean.makeDoubled}"
    process="@form" update="messageDisplay"/>
  <p:menuitem value="Reversed"
    action="#{messageBean.makeReversed}"
    process="@form" update="messageDisplay"/>
  <p:menuitem value="Show on Separate Page"
    action="#{messageBean.showSeparately}"
    ajax="false"/>
</p:submenu>
```

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Example: Java

```
@ManagedBean
public class MessageBean {
    private String message="";

    // getMessage and setMessage

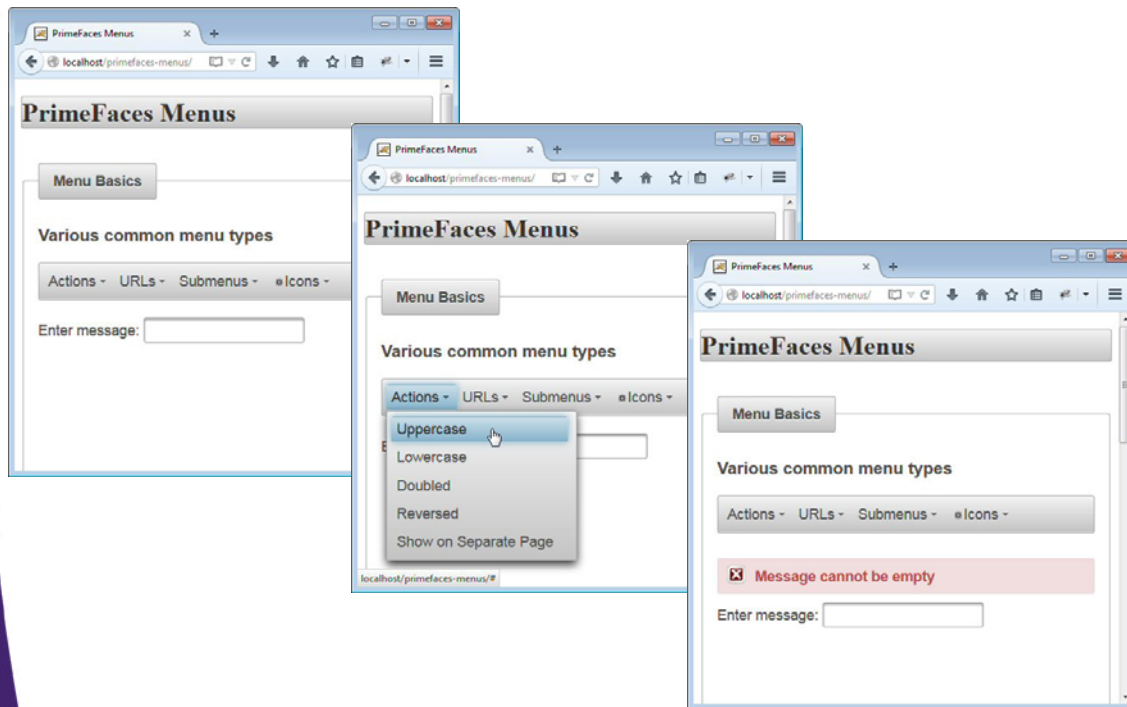
    public String makeUpperCase() {
        message = message.toUpperCase();
        return(null);
    }

    // Similar for makeLowerCase, makeDoubled,
    // and makeReversed

    public String showSeparately() {
        return("show-message");
    }
}
```

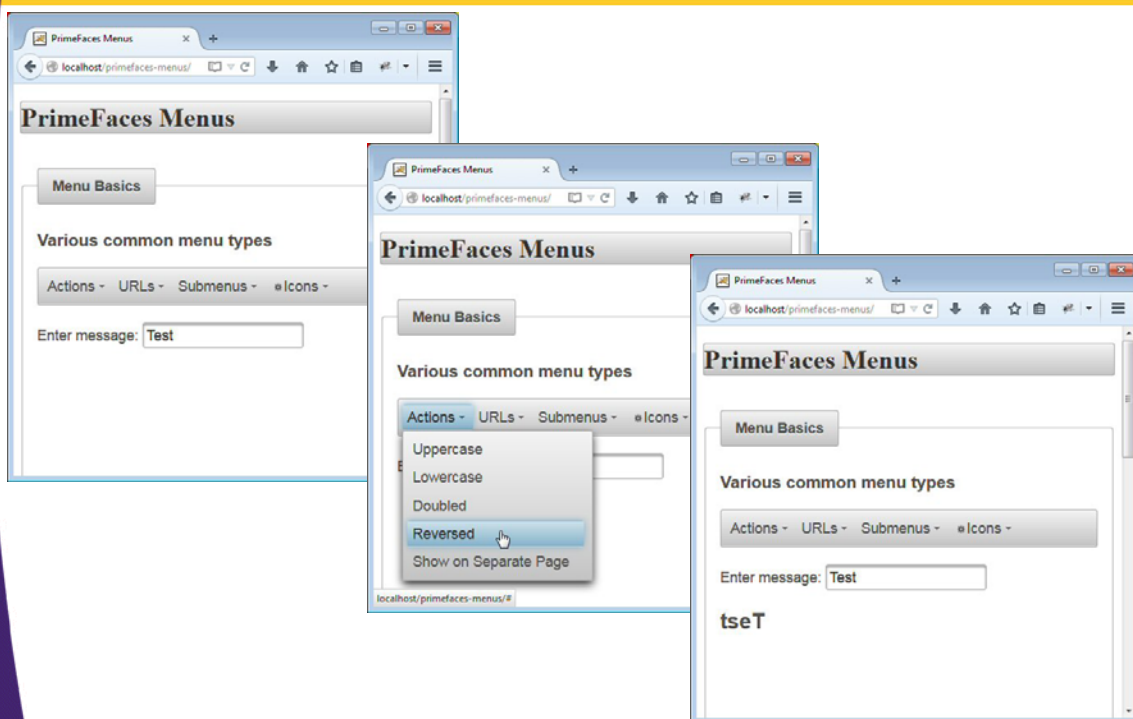
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Example: Results (Missing Message)



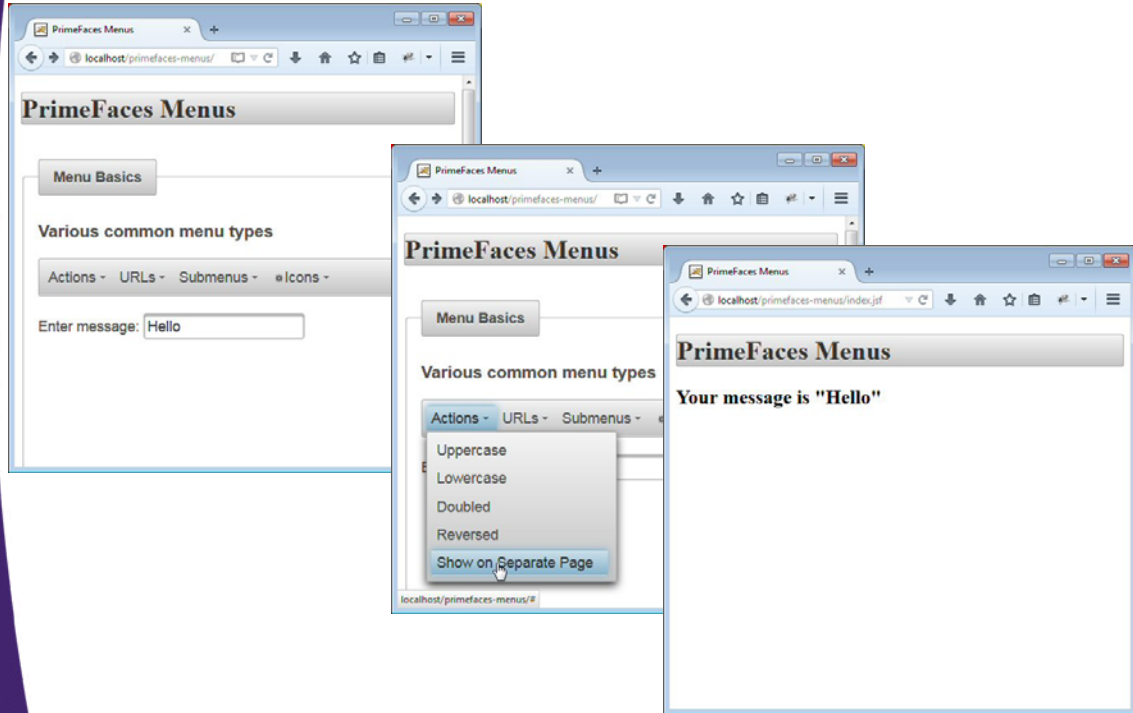
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Example: Results (Ajax Options)



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Example: Results (Non-Ajax Option)



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Using Menus to Display URLs



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The url Attribute

- **Big idea**

- You use url to designate a URL that should be displayed when the menu item is selected.
- You can also use target to specify the frame cell (or new window with “_new”)

- **Quick example**

```
<p:menuitem value="Item label"
            url="http://www.example.com/blah"/>
...

```

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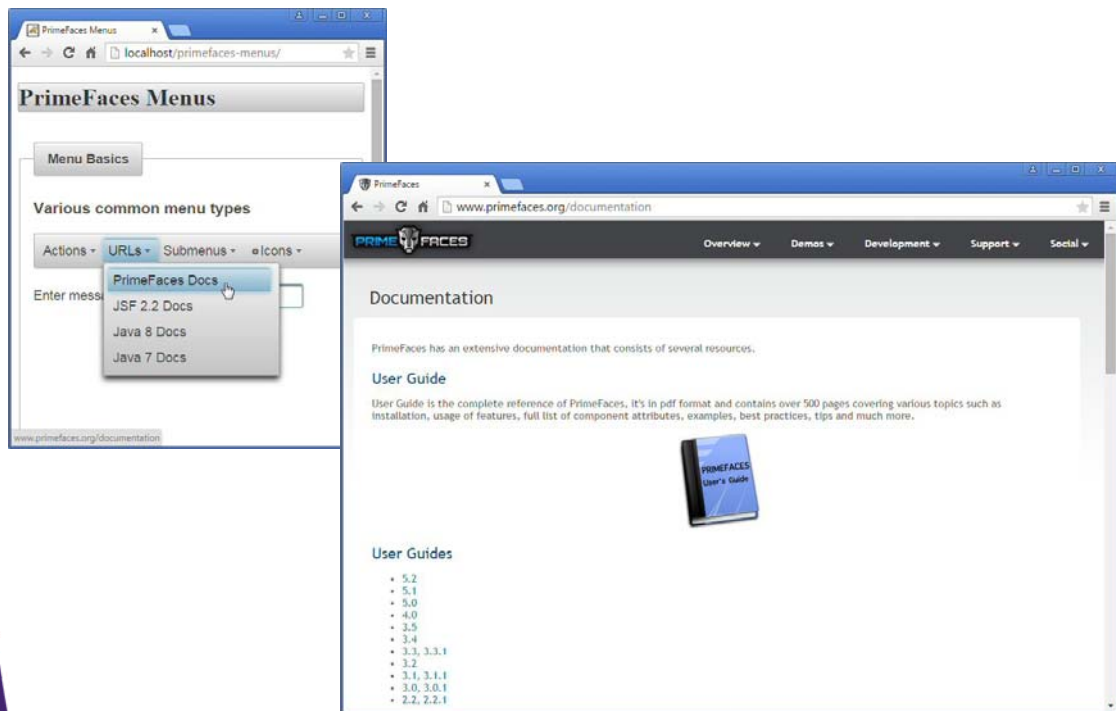
Example: HTML for Menu

```
<p:submenu label="URLs">
  <p:menuitem value="PrimeFaces Docs"
              url="http://www.primefaces.org/documentation"/>
  <p:menuitem value="JSF 2.2 Docs"
              url="https://javaserverfaces.java.net/docs/2.2/" />
  <p:menuitem value="Java 8 Docs"
              url="http://docs.oracle.com/javase/8/docs/api/" />
  <p:menuitem value="Java 7 Docs"
              url="http://docs.oracle.com/javase/7/docs/api/" />
</p:submenu>

```

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Example: Results



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Using Nested Menus



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Submenus

- **Big idea**

- Instead of putting a p:menuitem inside p:submenu, you can put another p:submenu. You can nest further.
 - Analogously, you can use p:menuitem instead of p:submenu at the top level of p:menubar

- **Quick example**

```
<p:menubar>
  <p:menuitem value="Item label"/>
  <p:submenu label="Menu label">
    <p:menuitem value="Item label"/>
    <p:submenu label="Menu label">
      ...
    </p:submenu>
  </p:submenu>
</p:menubar>
```

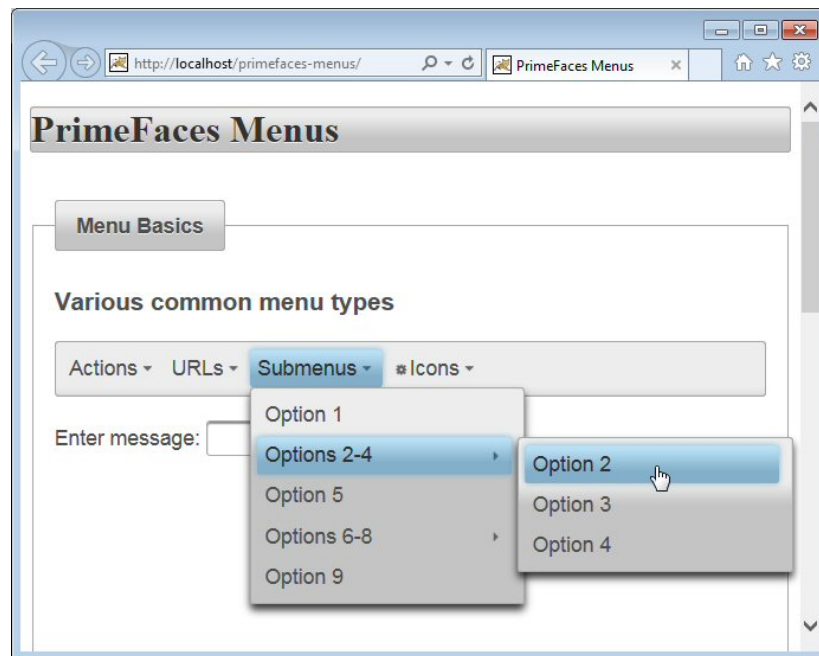
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Example: HTML for Menu

```
<p:submenu label="Submenus">
  <p:menuitem value="Option 1"/>
  <p:submenu label="Options 2-4">
    <p:menuitem value="Option 2"/>
    <p:menuitem value="Option 3"/>
    <p:menuitem value="Option 4"/>
  </p:submenu>
  <p:menuitem value="Option 5"/>
  <p:submenu label="Options 6-8">
    <p:menuitem value="Option 6"/>
    <p:submenu label="Options 7-8">
      <p:menuitem value="Option 7"/>
      <p:menuitem value="Option 8"/>
    </p:submenu>
  </p:submenu>
  <p:menuitem value="Option 9"/>
</p:submenu>
```

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Example: Results



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Displaying Icons



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Icons

- **Big idea**

- You can add icons to menus and menu items
 - Also to p:commandButton and many other components
 - See next page for legal icon names
- You can separate related entries with p:separator

- **Quick example**

```
<p:submenu label="Menu label" icon="Icon name">
  <p:menuitem value="Item label" icon="Icon name"/>
  ...
  <p:separator/>
  ...
</p:submenu>
```

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Legal Icon Names

- **An icon from jQuery UI**

- Examples
 - ui-icon-help, ui-icon-disk, ui-icon-trash
- Official list: <http://api.jqueryui.com/theming/icons/>
- Unofficial list:
<http://www.petefreitag.com/cheatsheets/jqueryui-icons/>
 - Easier to use, but no guarantee of accuracy in future

- **Your own icon, defined in CSS file**

```
.your-icon-name {
  background: url(my-picture.png) no-repeat;
  height:16px;
  width:16px;
}
```

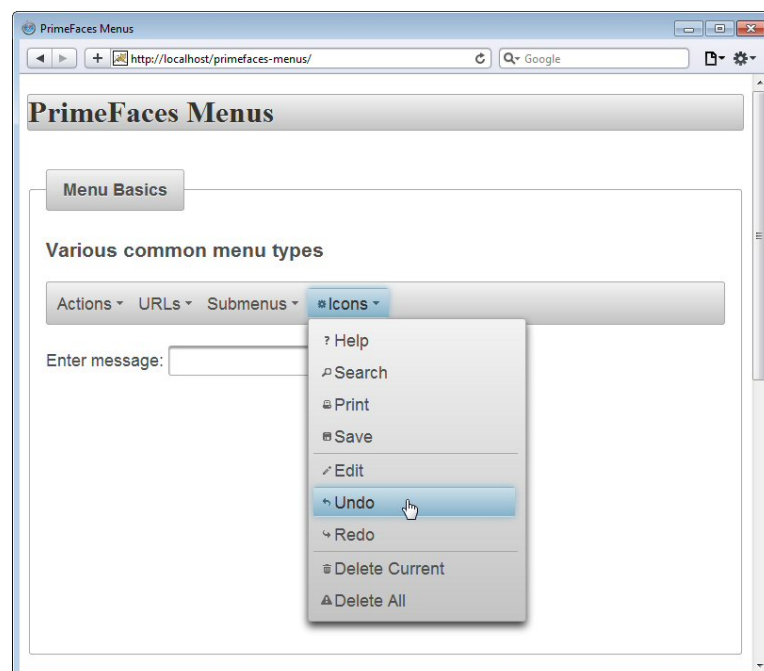
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Example: HTML for Menu

```
<p:submenu label="Icons" icon="ui-icon-gear">
  <p:menuitem value="Help" icon="ui-icon-help"/>
  <p:menuitem value="Search" icon="ui-icon-search"/>
  <p:menuitem value="Print" icon="ui-icon-print"/>
  <p:menuitem value="Save" icon="ui-icon-disk"/>
  <p:separator/>
  <p:menuitem value="Edit" icon="ui-icon-pencil"/>
  <p:menuitem value="Undo"
    icon="ui-icon-arrowreturnthick-1-w"/>
  <p:menuitem value="Redo"
    icon="ui-icon-arrowreturnthick-1-e"/>
  <p:separator/>
  <p:menuitem value="Delete Current"
    icon="ui-icon-trash"/>
  <p:menuitem value="Delete All" icon="ui-icon-alert"/>
</p:submenu>
```

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Example: Results



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Inserting Custom Menubar Content



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Icons

- **Big idea**
 - You can add arbitrary PrimeFaces components to a menubar by using a facet with the name “options”.
 - Often used for form elements.

- **Quick example**

```
<p:menubar>
...
<f:facet name="options">
...
</f:facet>
</p:menubar>
```

Example: HTML

```
<h:form>
<p:menubar>

<!-- Normal submenus -->

<f:facet name="options">
  <p:inputText value="#{searchController.searchString}"
    placeholder="Search Text"
    style="margin-right:10px"/>
  <p:commandButton value="Google It"
    icon="ui-icon-search"
    action="#{searchController.doSearch}"
    ajax="false"/>
</f:facet>
</p:menubar>
</h:form>
```

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Example: Java

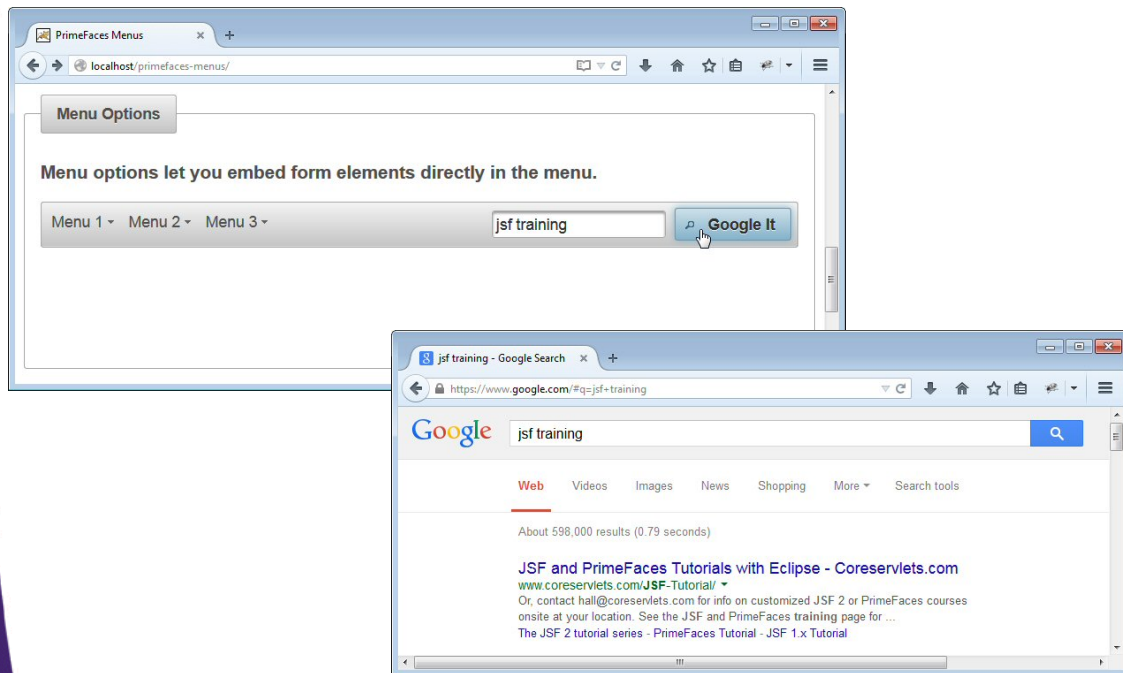
```
@ManagedBean
public class SearchController {
  private String searchString="";
  private final static String GOOGLE_URL =
    "https://www.google.com/#q=";

  // getSearchString and setSearchString

  public String doSearch() throws IOException {
    searchString = URLEncoder.encode(searchString, "utf-8");
    String searchUrl = GOOGLE_URL + searchString;
    ExternalContext context =
      FacesContext.getCurrentInstance().getExternalContext();
    HttpServletResponse response =
      (HttpServletResponse)context.getResponse();
    response.sendRedirect(searchUrl);
    return(null);
  }
}
```

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Example: Results



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Wrap-Up



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Summary

- **Basic syntax**

```
<p:menubar>
  <p:submenu label="Menu label">
    <p:menuitem value="Item label" .../>
    <!-- More menu items -->
  </p:submenu>
  <!-- More submenus -->
</p:menubar>
```

- **Options**

- action for menuitem: does Ajax or form submission
- url for menuitem: does redirect
- Can nest submenus
- Can use icons (standard or defined in CSS file)
- Can put custom content in menubar with “options” facet

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Questions?

More info:

<http://www.coreservlets.com/JSF-Tutorial/jsf2/> – JSF 2.2 tutorial

<http://www.coreservlets.com/JSF-Tutorial/primefaces/> – PrimeFaces tutorial

<http://courses.coreservlets.com/jsf-training.html> – Customized JSF and PrimeFaces training courses

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