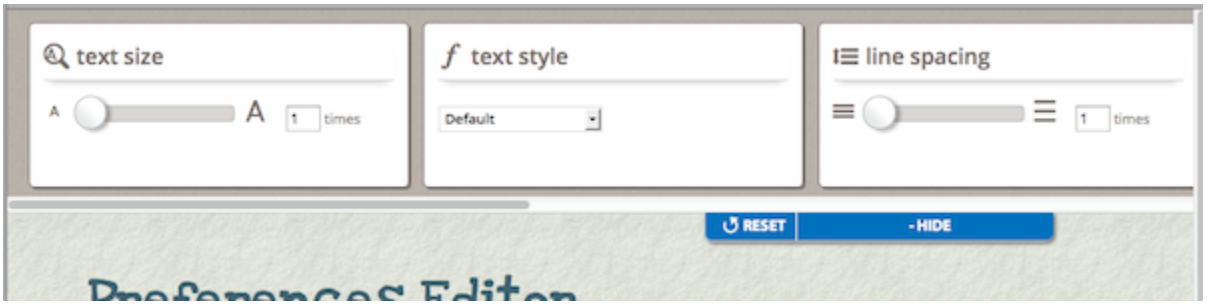
User Interface Options API

Production Status: PREVIEW



The **User Interface Options component (UI Options)** allows users to transform the presentation of the user interface and content resources so that they are personalized to the individual user's needs.

UI Options does three things:

- places a preferences editor dialog with a set of six panels in a collapsible panel at the top of the page, accessible through a button in the upper right corner of the page;
- instantiates a cookie-based Settings Store for storing the user's preferences; and
- acts upon the user's preferences.

The User Interface Options component (UI Options) is a convenient way to add a simple separated-panel preferences editor to any page. The interface will automatically support the set of "starter" preferences provided by the Preferences Framework, in their default configuration. **If you require any customization of the preferences editor, you should use the Builder tool of the Preferences Framework directly.**

See Also
Tutorial - User Interface Options
Builder
Preferences Framework

Creator	`fluid.uiOptions.prefsEditor(container, options)`
Supported Events	`onReady` Fires after the interface has been rendered into the iframe and the UI Options component is fully instantiated. `onPrefsEditorReady` Fires after the interface has been rendered into the iframe.
Methods	*none*
Options	**`listeners`** See Supported Events for information **tocTemplate** A relative path to the template that table of contents is based on **`templatePrefix`** A relative path to the framework-provided templates **`messagePrefix`** A relative path to the message files **prefsEditor** The data structure that configs the internal `prefsEditor` component **prefsEditorType** The name of a grade component of the internal `prefsEditorLoader` **enhancerType** The name of a grade component of the internal `uiEnhancer` **storeType** The name of a grade component of the internal `store`

Modifiable Preference Defaults	UI Options comes with 7 preference out-of-box. The default information of these preferences, such as its default value, the limits of its range, can be modified by redefining corresponding starter primary schema components before instantiating the creator function `fluid.uiOptions.prefsEditor`. **Text Size** The starter component: fluid.prefs.schemas.textSize **Line Space** The starter component: fluid.prefs.schemas.lineSpace **Text Font** The starter component: fluid.prefs.schemas.textFont **Contrast** The starter component: fluid.prefs.schemas.contrast **Table of Contents** The starter component: fluid.prefs.schemas.tableOfContents **Emphasize Links** The starter component: fluid.prefs.schemas.emphasizeLinks **Inputs Larger** The starter component: fluid.prefs.schemas.inputsLarger

Creator

back to top Use the following function to create a UI Options component:

Method	`fluid.uiOptions.prefsEditor(container, options);`
Description	Instantiate a separated panel version of the UI Options component, which displays the controls in a sliding panel at the top of the page.
Parameters	*`container`* A CSS-based selectors, single-element jQuery object, or DOM element that identifies the root DOM node where the UI Options interface should be placed. *`options`* An optional data structure that configures the UI Options component, as described below.
Returns	The UI Options component
Examples	`var myUIO = fluid.uiOptions.prefsEditor("#myContainer", {` `  tocTemplate: "../../components/tableOfContents/html/TableOfContents.html"` `});`
Notes	The UI Options uses the page itself as a live "preview:" As users adjust controls, the page is modified accordingly.

Supported Events

back to top Listeners can be attached to any supported events through a component's `listeners` option. Values can be a function reference (not a string function name) or an anonymous function definition, as illustrated below:

```
var myComponent = component.name("#myContainerID", {
    listeners: {
        eventName1: functionName,
        eventName2: function (params) {
            ...
        }
    }
});
```

For information on the different types of events, see Infusion Event System.

onReady

Description	This event fires when the UI Options component is fully instantiated, rendered and ready to use.
Type	default
Parameters	*uio* The instantiated UI Options component.
Availability	Infusion 1.4 and later (note that the component signature changed in 1.5)

onPrefsEditorReady

Description	This event fires when the UI Options interface has been rendered into the iframe. **Note:** use onReady if the listener needs UI Options to be both rendered and ready to use.
Type	default
Parameters	*prefsEditorLoader* The instantiated preference editor loader component.
Availability	Infusion 1.5 and later

Options

back to top The second argument to the creator function is the options argument. This is a JavaScript object containing name/value pairs: The name is the name of the option and the value is the desired setting. Components define their own default values for options, but integrators can override these defaults by providing new values using the options argument. For technical information about how options are merged with defaults, see Options Merging.

```
var uio = fluid.uiOptions.prefsEditor(".myContainer", {
    <option1Name>: <option1value>,
    <option2Name>: <option2value>
    ...
}
});
```

The options supported by UI Options are described below.

tocTemplate

Description	The `tocTemplate` option allows you to specify a custom relative path to the templates used by generating table of contents. This template can be found in the source tree of the Infusion distribution.
Default	"../../components/tableOfContents/html/TableOfContents.html"
Example	`fluid.uiOptions.prefsEditor("#myContainer", {` `    tocTemplate: "html/myTocTemplate.html"` `});`
See also	Table of Contents API

templatePrefix

Description	The `templatePrefix` option allows you to specify a custom relative path to the templates used by the UI Options interface. These templates can be found in the source tree of the Infusion distribution.
Default	"../../framework/preferences/html/"

Example	`fluid.uiOptions.prefsEditor("#myContainer", {` `  templatePrefix: "../infusion/framework/preferences/html/"` `});`
See also	`messagePrefix`

`messagePrefix`

Description	The `messagePrefix` option allows you to specify a custom relative path to the messages used by the UI Options interface. These message files can be found in the source tree of the Infusion distribution.
Default	"../../framework/preferences/messages/"
Example	`fluid.uiOptions.prefsEditor("#myContainer", {` `  messagePrefix: "../infusion/framework/preferences/messages/"` `});`
See also	`templatePrefix`

`prefsEditor`

Description	The `prefsEditor` option allows you to specify a data structure to config the `prefsEditor` component.
Default	null
Example	`fluid.uiOptions.prefsEditor("#myContainer", {` `  prefsEditor: {` `  listeners: {` `  onReady: function (internalEditor) {...}` `  onReset: function (internalEditor) {...}` `  }` `  }` `});`

`prefsEditorType`

Description	The `prefsEditorType` option allows you to specify a custom `prefsEditorLoader` grade component.
Default	"fluid.prefs.separatedPanel"
Example	`fluid.uiOptions.prefsEditor("#myContainer", {` `  prefsEditorType: "myNamespace.myPrefsEditor"` `});`
See also	`Internal Prefs Editor`

`enhancerType`

Description	The `enhancerType` option allows you to specify a custom `enhancer` grade component.
Default	"fluid.pageEnhancer"
Example	`fluid.uiOptions.prefsEditor("#myContainer", {` `  enhancerType: "myNamespace.myUIEnhancer"` `});`

`storeType`

Description	The `storeType` option allows you to specify a custom `store` grade component.
Default	"fluid.globalSettingsStore"
Example	`fluid.uiOptions.fullNoPreview("#myContainer", {` `  storeType: "myNamespace.mySettingsStore"` `});`
See also	`Cookie Settings Store`

Modifiable Preference Defaults

`Text Size`

Description	To change the text size of the page by a multiplier factor. The corresponding starter primary schema component for the "Text Size" preference is `fluid.prefs.schemas.textSize`. To modify its default information, you can redefine this component before calling the Creator `fluid.uiOptions.prefsEditor`.
Default	`fluid.defaults("fluid.prefs.schemas.textSize", {` `  gradeNames: ["autoInit", "fluid.prefs.schemas"],` `  schema: {` `  "fluid.prefs.textSize": {` `  "type": "number",` `  "default": 1,  // The default is the original text size` `  "minimum": 1,  // The minimum value allowed` `  "maximum": 2,  // The maximum value allowed` `  "divisibleBy": 0.1  // The stepper value for the slider` `  }` `  }` `});`
Example	`fluid.defaults("fluid.prefs.schemas.textSize", {` `  gradeNames: ["autoInit", "fluid.prefs.schemas"],` `  schema: {` `  "fluid.prefs.textSize": {` `  "type": "number",` `  "default": 5,` `  "minimum": 1,` `  "maximum": 10,` `  "divisibleBy": 1` `  }` `  }` `});` `fluid.uiOptions.prefsEditor("#myContainer", {` `  tocTemplate: "html/myTocTemplate.html"` `});`

`Line Space`

Description	To change the line space of the page by a multiplier factor. The corresponding starter primary schema component for the "Line Space" preference is `fluid.prefs.schemas.lineSpace`. To modify its default information, you can redefine this component before calling the Creator `fluid.uiOptions.prefsEditor`.

Default

```
fluid.defaults("fluid.prefs.schemas.lineSpace", {
    gradeNames: ["autoInit", "fluid.prefs.schemas"],
    schema: {
        "fluid.prefs.lineSpace": {
            "type": "number",
            "default": 1,   // The default text size is 1, the original line space
            "minimum": 1,   // The minimum value allowed
            "maximum": 2,   // The maximum value allowed
            "divisibleBy": 0.1  // The stepper value for the slider
        }
    }
});
```

Example

```
fluid.defaults("fluid.prefs.schemas.lineSpace", {
    gradeNames: ["autoInit", "fluid.prefs.schemas"],
    schema: {
        "fluid.prefs.lineSpace": {
            "type": "number",
            "default": 1,
            "minimum": 0.5,
            "maximum": 2.5,
            "divisibleBy": 0.1
        }
    }
});

fluid.uiOptions.prefsEditor("#myContainer", {
    tocTemplate: "html/myTocTemplate.html"
});
```

`Text Font`

Description

To change the text font of the page.

The corresponding starter primary schema component for the "Text Font" preference is `fluid.prefs.schemas.textFont`. To modify its default information, you can redefine this component before calling the Creator `fluid.uiOptions.prefsEditor`.

Default

```
fluid.defaults("fluid.prefs.schemas.textFont", {
    gradeNames: ["autoInit", "fluid.prefs.schemas"],
    schema: {
        "fluid.prefs.textFont": {
            "type": "string",      // The data type
            "default": "default",  // The default is the original font
            "enum": ["default", "times", "comic", "arial", "verdana"]  // The enumeration of
possible values
        }
    }
});
```

Example	``` fluid.defaults("fluid.prefs.schemas.textFont", { gradeNames: ["autoInit", "fluid.prefs.schemas"], schema: { "fluid.prefs.textFont": { "type": "string", "default": "arial", "enum": ["default","comic", "arial"] } } }); fluid.uiOptions.prefsEditor("#myContainer", { tocTemplate: "html/myTocTemplate.html" }); ```

Contrast

Description	To change the foreground and background contrast of the page. The corresponding starter primary schema component for the "Contrast" preference is `fluid.prefs.schemas.contrast`. To modify its default information, you can redefine this component before calling the Creator `fluid.uiOptions.prefsEditor`.
Default	``` fluid.defaults("fluid.prefs.schemas.contrast", { gradeNames: ["autoInit", "fluid.prefs.schemas"], schema: { "fluid.prefs.contrast": { "type": "string", // The data type "default": "default", // The default is the original contrast settings "enum": ["default", "bw", "wb", "by", "yb", "lgdg"] // The enumeration of possible values } } }); ```
Example	``` fluid.defaults("fluid.prefs.schemas.contrast", { gradeNames: ["autoInit", "fluid.prefs.schemas"], schema: { "fluid.prefs.contrast": { "type": "string", "default": "bw", "enum": ["default", "bw", "wb"] } } }); fluid.uiOptions.prefsEditor("#myContainer", { tocTemplate: "html/myTocTemplate.html" }); ```

Table of Contents

Description	To create and render a section of "Table of Contents" at the top of the page. The corresponding starter primary schema component for the "Table of Contents" preference is `fluid.prefs.schemas.tableOfContents`. To modify its default information, you can redefine this component before calling the Creator `fluid.uiOptions.prefsEditor`.

Default	`fluid.defaults("fluid.prefs.schemas.tableOfContents", {` `  gradeNames: ["autoInit", "fluid.prefs.schemas"],` `  schema: {` `  "fluid.prefs.tableOfContents": {` `  "type": "boolean",  // The data type` `  "default": false  // Not to show table of contents by default` `  }` `  }` `});`
Example	`fluid.defaults("fluid.prefs.schemas.tableOfContents", {` `  gradeNames: ["autoInit", "fluid.prefs.schemas"],` `  schema: {` `  "fluid.prefs.tableOfContents": {` `  "type": "boolean",` `  "default": true` `  }` `  }` `});` `fluid.uiOptions.prefsEditor("#myContainer", {` `  tocTemplate: "html/myTocTemplate.html"` `});`

`Emphasize Links`

Description	To underline and bold links on the page. The corresponding starter primary schema component for the "Emphasize Links" preference is `fluid.prefs.schemas.emphasizeLinks`. To modify its default information, you can redefine this component before calling the Creator `fluid.uiOptions.prefsEditor`.
Default	`fluid.defaults("fluid.prefs.schemas.emphasizeLinks", {` `  gradeNames: ["autoInit", "fluid.prefs.schemas"],` `  schema: {` `  "fluid.prefs.emphasizeLinks": {` `  "type": "boolean",  // The data type` `  "default": false  // Not to emphasize links by default` `  }` `  }` `});`
Example	`fluid.defaults("fluid.prefs.schemas.emphasizeLinks", {` `  gradeNames: ["autoInit", "fluid.prefs.schemas"],` `  schema: {` `  "fluid.prefs.emphasizeLinks": {` `  "type": "boolean",` `  "default": true` `  }` `  }` `});` `fluid.uiOptions.prefsEditor("#myContainer", {` `  tocTemplate: "html/myTocTemplate.html"` `});`

`Inputs Larger`

Description	To enlarge input fields on the page. The corresponding starter primary schema component for the "Inputs Larger" preference is `fluid.prefs.schemas.inputsLarger`. To modify its default information, you can redefine this component before calling the Creator `fluid.uiOptions.prefsEditor`.
Default	`fluid.defaults("fluid.prefs.schemas.inputsLarger", {` `  gradeNames: ["autoInit", "fluid.prefs.schemas"],` `  schema: {` `  "fluid.prefs.inputsLarger": {` `  "type": "boolean",  // The data type` `  "default": false  // Not to enlarge input fields by default` `  }` `  }` `});`
Example	`fluid.defaults("fluid.prefs.schemas.inputsLarger", {` `  gradeNames: ["autoInit", "fluid.prefs.schemas"],` `  schema: {` `  "fluid.prefs.inputsLarger": {` `  "type": "boolean",` `  "default": true` `  }` `  }` `});` `fluid.uiOptions.prefsEditor("#myContainer", {` `  tocTemplate: "html/myTocTemplate.html"` `});`