Sapui5 code snippets

onAfterRendering for a control

Standard method

txt.addEventDelegate({

      onAfterRendering : function () {

    setTimeout(function(){

alert("text");

}, 3000);

    }

}, this);

Below is manual method

var txt = this.byId("text");

txt.onAfterRendering = function(){

if(sap.m.Text.prototype.onAfterRendering){

sap.m.Text.prototype.onAfterRendering.apply(this, arguments);

}

setTimeout(function(){

alert("text");

}, 9000);

}

Adding custom data in XML views

<Button ... >

<customData>

<core:CustomData key="mydata" value="Hello" writeToDom="true" />

</customData>

</Button>

button[data-mydata="Hello"] { border: 3px solid red !important; }

Edit full website

javascript:document.body.contentEditable='true'; document.designMode='on'; void 0

var viewId = this.getView().sId;

sap.ui.getCore().byId(viewId+"--otbFooter").setVisible(false);

https://sapui5.hana.ondemand.com/resources/sap-ui-core.js

data-sap-ui-xx-bindingSyntax="complex"

data-sap-ui-support=true,window => for debugging errors

this.getView().addStyleClass(sap.ui.Device.support.touch ? "sapUiSizeCozy" : "sapUiSizeCompact");

var oCtx = this.getView().getBindingContext();

var $a = $(this.getView().byId("register1").getDomRef());

***.sap-phone .myControl {***

***font-size: small;***

***}***

***• sap-desktop***

***• sap-tablet***

***• sap-phone***

**Date & Time**

jQuery.sap.require("sap.ui.core.format.DateFormat");

new Date(jQuery.sap.now())

var oDateFormat = sap.ui.core.format.DateFormat.getDateTimeInstance({pattern: "dd/MM/yyyy HH:mm"}); //Returns a DateFormat instance for date and time

//var oDateFormat = sap.ui.core.format.DateFormat.getInstance({pattern: "dd/MM/yyyy"}); //Returns a DateFormat instance for date

//var oDateFormat = sap.ui.core.format.DateFormat.getTimeInstance({pattern: "HH:mm"}); //Returns a DateFormat instance for time

var oField = new sap.ui.commons.TextField();

oField.setValue(oDateFormat.format(oDate)); // Set the formatted value on the text field

oField.attachChange(function(){

//Parse the user input

oDate = oDateFormat.parse(oField.getValue());

});

Cache update

<script type="text/javascript"

id="sap-ui-bootstrap"

src="resources/sap-ui-cachebuster/sap-ui-core.js"

data-sap-ui-libs="sap.ui.core,sap.ui.commons,sap.ui.table"

data-sap-ui-theme="sap\_bluecrystal"></script>

Expression binding

***<!--Set to visible if the status is critical and the amount is above the threshold (note escaping of &&)-->***

***visible="{= ${status} === 'critical' &amp;&amp; ${amount} > 10000 }"***

***<!--Text for amount level using language-dependent texts from the resource model.-->***

***text="{= ${/amount} > 10000 ? ${i18n>/high} : ${i18n>/normal} }"***

***<!--Set to visible if the rating is VIP, ignoring case or if the order amount is greater than 10,000.-->***

***visible="{= ${/rating}.toUpperCase() === 'VIP' || ${/orderAmount} > 10000 }"***

***<!--Set to visible if the rating contains VIP, ignoring the case. -->***

***visible={= RegExp('vip', 'i').test(${/rating}) }***

***<!--Text is maximum of three values.-->***

***text="{= Math.max(${/value1}, ${/value2}, ${/value3}) }"***

***<!--Control is enabled only if the order status is set.-->***

***enabled="{= ${/orderStatus} !== null }"***

Routing manifest basic code

{

metadata: {

routing: {

config: {

viewType: "XML",

viewPath: "view",

controlId: "splitApp",

clearTarget: false,

bypassed: {

target: "notFound"

}

},

routes: [{

pattern: "category/{id}",

name: "category",

target: "category"

},

{

pattern: "category/{id}/product/{productId}",

name: "product",

target: "product"

},

{

pattern: "",

name : "home",

target: "home"

}

|

],

targets: {

category: {

viewName: "Category",

controlAggregation: "masterPages"

},

product: {

viewName: "Product",

controlAggregation: "detailPages",

parent: "category"

},

home: {

viewName: "Home",

controlAggregation: "masterPages"

},

notFound: {

viewName: "NotFound",

controlAggregation: "detailPages",

parent: "home"

}

}

}

}

}

**How to Name Stable IDs**

• myProducts--worklist--page

• myProducts--worklist--table

• myProducts--product--page

• myProducts--product--objectHeader

Console.log

jQuery.sap.log.info("some message");

Adding style class

oButton.addStyleClass("poaAppError");

Navigation and Routing

https://help.sap.com/viewer/0ce0b8c56fa74dd897fffda8407e8272/7.5.6/en-US/1b6dcd39a6a74f528b27ddb22f15af0d.html

Resource model

// Create a resource bundle for language specific texts

var oResourceModel = new sap.ui.model.resource.ResourceModel({

bundleName : "sap.ui.demo.db.i18n.i18n"

});

// Assign the model object to the SAPUI5 core using the name "i18n"

sap.ui.getCore().setModel(oResourceModel, "i18n");

Control over-riding

oControl.addEventDelegate({

"onAfterRendering": function() {

var $label = oControl.$().find(".sapMLabel");

if (/\* sanity check whether the change still makes sense \*/) {

// TODO: re-test after UI5 updates, create automated test

$label.text("Better");

}

}

});

oControl.addEventDelegate({

onAfterRendering:function() {

// do something

}

});

***oTable.addEventDelegate({***

***onAfterRendering: function() {***

***oTable.$().find(".sapUiTableColRowHdrIco").hide()***

***}***

***}, this);***

Busy indicators

• sap.ui.core.BusyIndicator

• sap.m.BusyDialog

• sap.m.BusyIndicator

sap.ui.core.BusyIndicator.show(<number>);

Input field validation on focus out

http://jsbin.com/muyopixido/1/edit?html,output

window.setTimeout(function(){

document.activeElement.blur();

}, 3000);

Getting router instance

this.router = sap.ui.core.UIComponent.getRouterFor(this);

**Navigate through anchor tag**

**<Link text="Go To Target" id="link"/>**

**<Text text="target" id="target" class="sapUiLargeMarginTop" />**

***onAfterRendering: function() {***

***var oRef = this.byId("target").getDomRef();***

***this.byId("link").setHref("#" + oRef.id);***

***}***

**Factory function link**

**https://blogs.sap.com/2016/06/14/sapui5-table-how-to-create-different-control-templates-in-one-column/**

**http://plnkr.co/edit/IFMXmD4jN6vuNz3ShF5V?p=preview**

Acceleration of SAPUI5 Cloud Deployment

***We now deploy new versions of SAPUI5 earlier to https://sapui5.hana.ondemand.com/. As soon as a new minor version is released, it will also be available there. Check the version overview at https://sapui5.hana.ondemand.com/versionoverview.html. To access a specific version, for example, in SAP Web IDE, add the version number to the URL, for example, https://sapui5.hana.ondemand.com/1.40.11/. For more information, see Variant for Bootstrapping from Content Delivery Network.***

API

At runtime, the manifest content can be accessed from the component via the component metadata:

// get the component

jQuery.sap.require("sap.samples.Component");

var oComponent = sap.samples.Component;

// getting complete manifest from component metadata

oComponent.getMetadata().getManifest();

//or getting a namespace

oComponent.getMetadata().getManifestEntry("sap.app");

***Read data in Json model from service url***

var oModel = new sap.ui.model.json.JSONModel();

oModel.loadData("proxy/http/services.odata.org/V4/Northwind/Northwind.svc/Employees", "oData");

oModel.attachRequestCompleted(function() {

var data = oModel.getData();

        console.log(data.value);

});

/\* 20 String Methods \*/

var stringOne = "freeCodeCamp is the best place to learn"

var stringTwo = "frontend and backend development"

// charAt()

console.log(stringOne.charAt(1))

// charCodeAt()

console.log(stringOne.charCodeAt(1))

// concat()

console.log(stringOne.concat(stringTwo))

// endsWith()

console.log(stringOne.endsWith("to"))

// fromCharCode()

console.log(String.fromCharCode(114))

// includes()

console.log(stringTwo.includes("end"))

// indexOf()

console.log(stringTwo.indexOf("end"))

// lastIndexOf()

console.log(stringTwo.lastIndexOf("end"))

// match()

console.log(stringTwo.match(/end/g))

// repeat()

console.log(stringOne.repeat(3))

// replace()

console.log(stringTwo.replace(/end/g, "END"))

// search()

console.log(stringTwo.search("end"))

// slice()

console.log(stringTwo.slice(2, 4))

// split()

console.log(stringOne.split(" "))

// startsWith()

console.log(stringOne.startsWith("free"))

// substr()

console.log(stringTwo.substr(2, 4))

// substring()

console.log(stringTwo.substring(2, 4))

// toLowerCase()

console.log(stringOne.toLowerCase())

// toUpperCase()

console.log(stringOne.toUpperCase())

// trim()

var stringThree = "     Subscribe now!      ";

console.log(stringThree.trim())

// JS Nuggets: 10 Common Array Methods

var arr = ["a", "b", "c"];

arr.push("d");

console.log(arr);

console.log(arr.pop());

console.log(arr);

var arr2 = ["g", "q"];

console.log(arr.concat(arr2));

console.log(arr2);

console.log(arr.join("!"));

console.log(arr.reverse());

console.log(arr);

console.log(arr.shift());

console.log(arr);

console.log(arr.unshift("p"));

console.log(arr);

console.log(arr.slice(1,3));

arr.push("i");

arr.push("f");

arr.sort(arr);

console.log(arr);

console.log(arr.splice(2, 2, "JS Nuggets"));

console.log(arr);

Fiori launch navigation

1. var oCrossAppNavigator = sap.ushell.Container.getService("CrossApplicationNavigation");
2. oCrossAppNavigator.toExternal({
3. target: { semanticObject : "#"}
4. });

Disable css file

$(".style1").attr("disabled", "disabled");

DOM reference

var homeBtn = sap.ui.getCore().byId("homeBtn").getDomRef();

Best for loop condition

**var** i **=** 0, len **=** arr.length;

**for**(i**+=**i; i **<** len; i**++**) {

console.log(arr[i]);

}

**var** i **=** 0, len **=** arr.length;

**for**(; i **<** len; i**++**) {

console.log(arr[i]);

}

Short hand method

var foo = 10;

foo == 10 && doSomething(); // is the same thing as if (foo == 10) doSomething();

foo == 5 || doSomething(); // is the same thing as if (foo != 5) doSomething();

check variable in present

"theFu" in window;

Objects in onInit

  onInit : function(){

  this.ss = {

      name : 'jeff',

      lastName : 'way',

      alert : function(){

      alert("hi");

      }

}

  },

  onAfterRendering : function(){

  console.log(this.ss.alert());

  }

Another way to use object variables

ss : {

      name : 'jeff',

      lastName : 'way',

      alert : function(){

      alert("hi");

      }

},

  onInit : function(){

  var nn = new HRBP\_Transfer.controller.HRBP\_Transfers;

  console.log(nn.ss.name);

  }

oEvent.getSource().addStyleClass("greenImage");

CSS classes for hide and show on different devices

* sapUiVisibleOnlyOnDesktop
* sapUiHideOnDesktop
* sapUiVisibleOnlyOnTablet
* sapUiHideOnTablet
* sapUiVisibleOnlyOnPhone
* sapUiHideOnPhone

Customization of SAP Fiori Logon page

<https://blogs.sap.com/2017/07/06/customization-of-sap-fiori-logon-page/>

Using JQuery with ID

onAfterRendering : function(){

var inp = this.getView().byId("getDate").getId();

$("#"+inp).click(function(){

alert("hi");

});

},

Destroying things while navigating

this.\_oView = this.getView();

    this.\_oView.addEventDelegate({

        onBeforeHide: function(oEvent) {

            alert("1");

        },

        onAfterHide: function(oEvent) {

        alert("2");

        }

    }, this)

Disabling mouse wheel scroll for input with type=”Number”

var oInput = this.byId("idInputNo");

oInput.attachBrowserEvent("mousewheel", function(oEvent) {

oEvent.preventDefault();

});

Using Date picker input field with up and down arrow to select date

oPicker = this.byId("datePicker");

oPicker.addEventDelegate({

onsapdown: function() {

var oDateValue = oPicker.getDateValue();

oDateValue.setDate(oDateValue.getDate() - 1);

oPicker.invalidate();

},

onsapup: function() {

var oDateValue = oPicker.getDateValue();

oDateValue.setDate(oDateValue.getDate() + 1);

oPicker.invalidate();

}

});

invalidate

This triggers rerendering of itself and its children.  
As sap.ui.base.ManagedObject "bubbles up" the invalidate, changes to child-Elements will also result in rerendering of the whole sub tree.

Visibility: protected

Invalidate() : void

<https://blogs.sap.com/2017/01/26/sapui5-extending-controls-behavior-using-addeventdelegate-function/>

<https://codepen.io/faalsh/pen/VPbJPv> 🡪 demo link

Delay call

1. onAfterRendering: function(){
2. jQuery.sap.delayedCall(100,null,function(){
3. var oModel = sap.ui.getCore().getModel("yourModel");
4. oModel.updateBindings(true);
5. });
6. }

An immediately-invoked function expression (IIFE) immediately calls a function. This simply means that the function is executed immediately after the completion of the definition.

Three more common wordings:

// Crockford's preference - parens on the inside

(function() {

console.log('Welcome to the Internet. Please follow me.');

}());

//The OPs example, parentheses on the outside

(function() {

console.log('Welcome to the Internet. Please follow me.');

})();

//Using the exclamation mark operator

//https://stackoverflow.com/a/5654929/1175496

!function() {

console.log('Welcome to the Internet. Please follow me.');

}();

If there are no special requirements for its return value, then we can write:

!function(){}(); // => true

~function(){}(); // => -1

+function(){}(); // => NaN

-function(){}(); // => NaN

Alternatively, it can be:

~(function(){})();

void function(){}();

true && function(){ /\* code \*/ }();

15.0, function(){ /\* code \*/ }();

You can even write:

new function(){ /\* code \*/ }

31.new function(){ /\* code \*/ }() //If no parameters, the last () is not required

Try this for clearing data fully on page // not tested

\_onRouteMatched: function(oEvent) {

this.oViewModelData = jQuery.extend(true, {}, this.oViewModelDataTemplate);

this.getView().setModel(new JSONModel(this.oViewModelData), "view");

}

<Table rows="{/rows'}">

<columns>

<Column autoResizable="true">

<!-- your code goes here -->

</Column>

<Column autoResizable="false">

<!-- Default value is false.

your code goes here -->

</Column>

</columns>

</Table>

Removing all iframe from document

var iframes = document.querySelectorAll('iframe');

for (var i = 0; i < iframes.length; i++) {

iframes[i].parentNode.removeChild(iframes[i]);

}

moving navigation icon to left in table

onAfterRendering: function() {

$( "thead .sapMListTblNavCol" ).insertAfter( "thead .sapMListTblHighlightCol" );

$( "tbody .sapMListTblNavCol" ).insertAfter( "tbody .sapMListTblHighlightCell" );

},

On before show

onInit: function() {

this.getView().addEventDelegate({

onBeforeShow: this.onBeforeShow,

}, this);

},

// reset the routing hash

HashChanger.getInstance().replaceHash("");

**SAPUI5 API**

At runtime, the manifest.json content can be accessed from the component via the component metadata:

// get the component class

sap.ui.require(['sap/samples/Component'], function(SampleComponent) {

// getting complete manifest from component metadata

SampleComponent.getMetadata().getManifest();

//or getting a namespace

SampleComponent.getMetadata().getManifestEntry("sap.app");

});