

CSS Sequence (Execution Order)

- » ServiceNow Specific StyleSheet
- > Generated Bootstrap CSS
- * Including Portal and Theme records' CSS at the top of this blob
- » Patch
- » Each CSS Include's Style Sheet record's CSS
- * Including Portal and Theme records' CSS at the top of each blob
- » Font-Awesome
- » Page record's CSS
- * Including Portal and Theme records' CSS at the top of this blob
- > Alternating Sequence of:
 - » Each Widget record's CSS
 - * Including Portal and Theme record CSS at the top of each blob
 - » Each Widget's Instance records' Stylesheets
- * Including Portal and Theme record CSS at the top of each blob

Angular Directives

Evaluate the given expression when the user changes the input.	ng-change = "expression" on"
Sets the checked attribute on the element	ng-checked = "boolean"
This directive sets the disabled attribute on the element	ng-disabled = "boolean"
The ngHide directive shows or hides the given HTML element based on the expression provided to the ngHide attribute.	ng-hide = "boolean"
The ngMousedown directive allows you to specify custom behavior on mousedown event.	ng-mousedown = "expression" on"
Specify custom behavior on mouseover event	ng-mouseover = "expression" on"
Specify custom behavior on blur event. A blur event fires when an element has lost focus.	ng-blur = "expression" on"
Run a loop with the data in array	ng-repeat = "[key,] value" in object array"
Evaluate an if condition	ng-if= "expression"

Client script global functions

```
this.s - Calls the server and sends custom input. Returns  
erv er.g - Promise.  
et ([0 -  
bject])  
  
this.s - Calls the server and posts this.data to the server  
erv er.u - script. Returns Promise.  
pd ate()  
  
this.s - Calls the server and automatically replaces the  
erv er.r - current options and data from the server response.  
ef resh() Returns Promise.
```

A promise represents the eventual result of an asynchronous operation. For more information on promises, see <https://promise-sapplus.com/> or AngularJS documentation.

spAriaUtil - Client

```
Announce a message spAriaUtil.sendMessage('Say Hello to screen  
to a screen reader. reader');
```

The spAriaUtil service is an angular service included as part of the Service Portal angular application. The spAriaUtil service is available in the client script block of Service Portal widgets.

To use the spAriaUtil please add the same to client controller

```
function( spAriaUtil ) {  
    / widget controller /  
    var c =this;  
}
```

spUtil - Client

Displays a notification error message.

```
spUtil.showError("There has been an error processing your request")
```

Displays a notification info message.

```
spUtil.showInfo("Your order has been placed")
```

Displays a trivial notification message.

```
spUtil.showTrivialMessage("Thanks for your order")
```

Trivial messages disappear after a short period of time.



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spUtil - Client (cont)

Use this method to embed a widget model in a widget client script. The callback function returns the full widget model.

```
spUtil.get('pps-li-st-modal', {title: c.data.edิตลักษณะ, ions, table: 'resource_альлокация', queryString: 'GROUP BY user ^resource_plan=' + c.data.sysId, view: 'resource_political_all_categories'}).then(function(response) {
    var formModal = response;
    c.allokat ionListModal = response;
});
```

Formats a string as an alternative to string concatenation.
Use this method to build a string with variables.

```
spUtil.format('An error occurred: {error} when loading {widget}', {error: '404', widget: 'sp-widget'})
```

Calls the server and replaces the current options and data with the server response.

```
spUtil.replace($scope)
```

Updates the data object on the server within a given scope.

```
spUtil.update($scope)
```

Watches for updates to a table or filter and returns the value from the callback function.

```
spUtil.watch({scope, "problem", "active=true"}, function(response) {
    // Returns the data inserted or updated on the table
    console.log(response);
});
```

Utility methods to perform common functions in a Service Portal widget client script.

To use the spUtil functions in the client controller, ensure that you add to client function

```
function(spUtil, $scope) {
    / widget controller /
    var c =this;
}
```

Internationalize a widget

* Use the \${} or gs.getMessage() syntax in widgets to tag strings for translation so you can localize your Service Portal content.

```
<div>
```

```
<p> ${This message will be translated.} </p>
<p> However, this will message will NOT be
translated.</p>
```

```
</div>
```

Now to translate the above, add the text in sys_ui_message to get the respective translation

ex:

- › Key: This message will be translated.
- › Language : 'de' / 'fr' / 'it'
- › Message : Add the translated text

GlideSPScriptable - Scoped

if the user can read the
specified GlideR ecord.

```
$sp.ca nRe adR -  
eco rd( <gl ide -  
rec ord >)
```

if the user can read the
specified record with table
and sysID

```
$sp.ca nRe adR -  
eco rd( 'ta ble',  
'sys_id')
```

if the currently logged in
user has permission to view
the specified page

```
GlideS PSc rip -  
tab le.c an See -  
Pag e("p age -  
_id ")
```

Returns a model and view
model for a sc_cat _item or
sc_cat _it em_ guide.

```
$sp.ge tCa tal -  
ogI tem (sy s_id)
```

Returns the display value of
the specified field (if it
exists and has a value) from
either the widget's sp_ins -
tance or the sp_portal
record.

```
$sp.ge tDi spl -  
ayV alu e("s c_c -  
ata log ")
```

Returns the portal record
from the Service Portals
[sp_po rtal] table.

```
$sp.ge tPo rta -  
lRe cord()
```

Returns an array of Service
Catalog variables associated
with a record.

```
$sp.ge tRe cor -  
dVa ria ble sAr -  
ray ('s c_r eq_ -  
ite mGlide  
record ',t rue(if  
you want variables  
with no values));
```

Gets a widget by id or
sys_id, executes that
widget's server script using
the provided options, then
returns the widget model.

```
$sp.ge tWi dge -  
t(' wid get _id',  
{p1: param1, p2:  
param2});
```

*Interact with data and perform record operations
in Service Portal widgets.*

*You access GlideS PSc rip table methods by using
the global \$sp object.*



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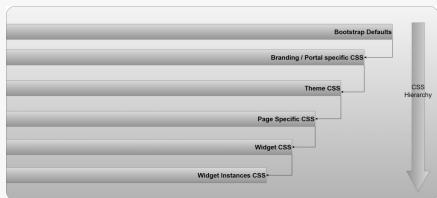
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Cheatography

ServicePortal Cheat Sheet Cheat Sheet
by Bibin Gokuldas (bibingokuldas) via cheatography.com/69673/cs/23975/

CSS Hierarchy



Global objects in widgets

» Server Side Objects

> *input* : Sent from Client script

> **options** : Configurations mentioned in widget options when widget is loaded

> **data**: Object or properties/value pair sent to client

» Client Side Objects

- > **options**: Configurations mentioned in widget options when widget is loaded
- > **data**: Serialized data object from Component

> `data`: Serialized data object from Server script

The "snRecordPicker"

* Creating a reference Field

```
<sn -re cor d-p icker field= " "
tab le= " 'sy -
s_u ser '"
dis pla y-f -
iel d="' nam e'"
dis pla y-f -
iel ds= " 'us er_ nam e'"
val ue- fie -
ld= " 'sy s_i d'"
sea rch -fi -
eld s="' nam e'"
def aul t-q -
uer y="' nam eLI KEA dmI n'"
pag e-s ize -
="10 0" ></ sn- rec ord -pi cke r>
```

When you try and include a reference field (such as "department") in the "display-fields" parameter, the field that you specify doesn't render other non reference fields do render correctly. This is an existing issue can be found in the KB0717097 you can pass in the filter you need to apply on reference field using default-query attribute

The "sp-date-picker"

FormController -(Widgets)

True if user has not interacted with the form yet. \$pristine

True if user has already interacted with the form. \$dirty

spModal - Client

Displays an alert.

```
spModa l.a ler t(' Thanks for the
update ').t he n(f unction
(answer) {
c.simple = answer;
});
```

Displays a confirmation message.

```
spModa l.c onf irm ("Can you  
confirm or deny this?").th en( -  
fun cti on( con firmed) {  
c.conf irmed = confirmed; // true  
or false  
})
```

Opens a modal window using the specified options.

```
spModa 1.o pen({  
  title: 'Give me a name',  
  message: 'What would you like to  
  name it?',  
  input: true,  
  value: c.name  
}).the n(f unc tio n(name) {  
  c.name = name;  
})
```

Displays a prompt
for user input.

```
spModa l.p rom pt( "Your name  
please ", c.name ).t hen (fu -  
nct ion (name) {  
c.name = name;  
})
```

The *spModal* class provides an alternative way to show alerts, prompts, and confirmation dialogs. The *SPModal* class is available in Service Portal client scripts.

You can use `spModal.open()` to display a widget in a modal dialog.

To use `spModal` in the client controller ensure that you add the `spModal` function in the client function

```
function( spModal) {  
  / widget controller /  
  var c =this;  
}  
}
```

Embed a widget in an HTML template

* The sp-date-picker allows to select a date and time in widgets

```
<sp -da te- picker field= " fro mda te"
                           ng- mod el= " c.f -
rom "
                           ng- mod el- opt -
ion s="{ get ter Setter: true}"
                           sn- inc lud e-t -
ime ="tr ue"
                           sn- dis abl ed= " -
fal se"> </s p-d ate -pi cke r>
```

sn-include-time property when set to true it will allow to select date and time. and when false it will allow to select only date.



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* Use the <widget></widget> element to embed a widget in an HTML template. Pass in the ID of the widget you are trying to embed as a parameter.

```
<di v>
<widget id=" wid get -co ol- clo ck"> </w idg et>
</d iv>
```

* If a widget has an option schema, you can define instance options in JSON format.

```
<widget id=" wid get -co ol- clo ck" option s=' -
{"zo ne": " Ame ric a/L os_ Ang ele s","t itl e":
"San Diego, CA"} '></w idg et>
```

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spContextManager - Client

Initializes a key and adds widget data as the value.

```
spCont ext Man age r.a ddC ont ext - ('a gen t-c hat', { 'appro val _co - unt': 5 });
```

Returns each key and associated data object defined by any widget on the page.

Returns the widget data associated with a key.

```
spCont ext Man age r.g etC ont ext - For Key ('a gen t-c hat', true).t he - n(f unc tio n(c ontext) { context = context || {}); contex t.a ppr ova - l_count = 5; spCont ext Man age r.u - pda tec ont ext For Key ('a gen t-c - hat', context);});
```

Sends data to an existing key.

```
spCont ext Man age r.g etC ont ext - For Key ('a gen t-c hat', true).t he - n(f unc tio n(c ontext) { context = context || {}); contex t.a ppr ova - l_count = 5; spCont ext Man age r.u - pda tec ont ext For Key ('a gen t-c - hat', context);});
```

Make data from a Service Portal widget available to other applications and services in a Service Portal page.

to use the spContextManager, ensure to add this in the function for client controller

```
function ($scope, spCont ext Man ager) {
var c =this;
}
```



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