

Agenda

Overview

- Key Navigation
- Scrollable Grid & List
- Demo

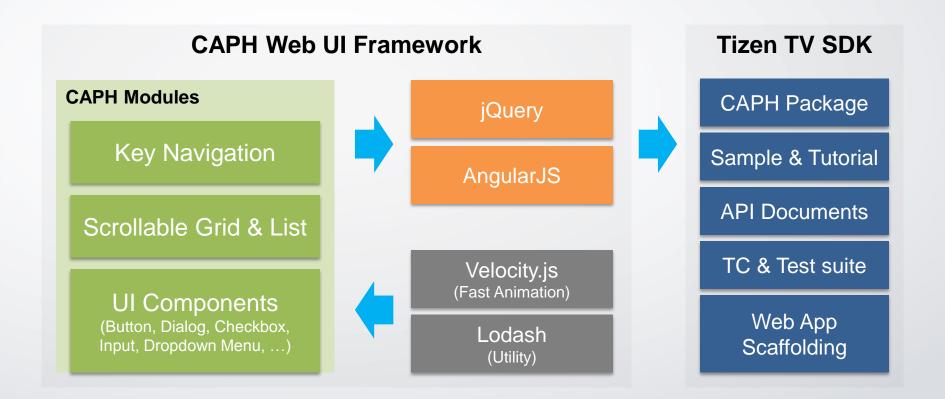
What is CAPH?

CAPH: a Web UI Framework Easy and quick development of web apps for Samsung Tizen TV

- Custom made for TV
- High performance
- Rich UI components



System Metaphor



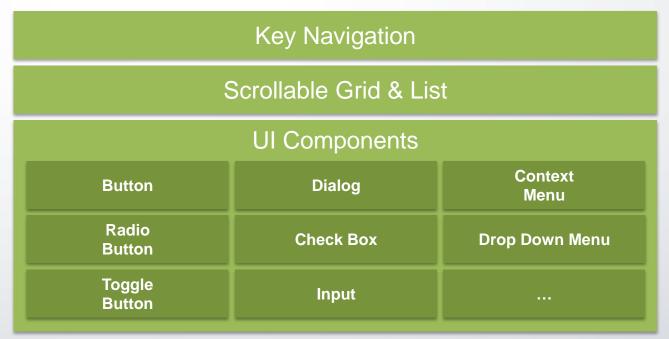
With Open Source Frameworks

- Based on popular frameworks (Presently jQuery and Angular JS)
- Support more frameworks in the future



CAPH Modules

- All modules support AngularJS and jQuery
- All modules work with Key Navigation
- All UI Components are customizable



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Key Navigation

- Handle the focus of UI elements easily by arrow keys of remote controller
- An attribute 'focusable' which represents the focusable element
- Support Mouse, Keyboard as well

<div focusable></div>

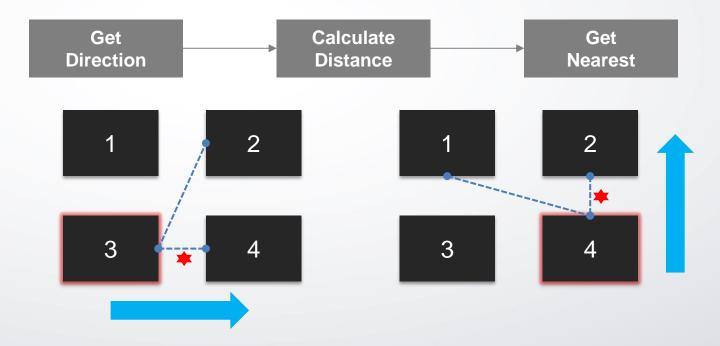


Find the nearest focusable element automatically



Nearest Focusable Finder

Find the nearest focusable element automatically



Support custom distance calculation strategy

Properties

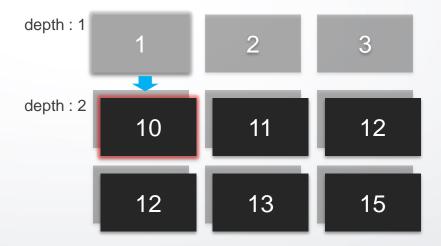
- Properties : depth, group, name
- By default, depth: 0, group: 'default', name: 'focusable-0'
- Can be changed as below

```
<div focusable="{depth: 1, group: 'test', name: 'focus1'}"></div>
Focusable option object
```

or

Property - depth

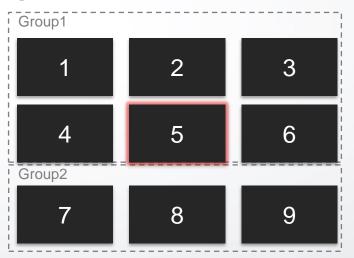
- Used when moving focus to another focusable element
- Focus only changed between the same depth



Change the depth by calling focus controller's 'setDepth' API

Property - group

- Separate focusable area semantically
- Focus can be changed if each depth is same



You can manage each group's previous focusable element history by calling focus controller's 'setGroup' API

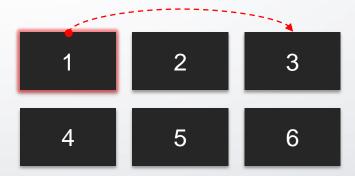
Change the group easily by concatenating 'group:' prefix and option value

```
<div focusable data-focusable-group="test1" data-focusable-next-focus-down="group:test2"></div>
<div focusable data-focusable-group="test2" data-focusable-next-focus-up="group:test1"></div>
```

Property - name

- Used when setting the next focus to the specific element
- Each name should be an unique value

```
<div focusable="{name: 'focus1', nextFocus: {right: 'focus3'}}"></div>
<div focusable="{name: 'focus2'}"></div>
<div focusable="{name: 'focus3'}"></div>
```



Event Handler

- on-focused
- on-blurred
- on-selected

or

```
$('[focusable]').on('focused blurred selected', function(event) {
    // your code here
});
```

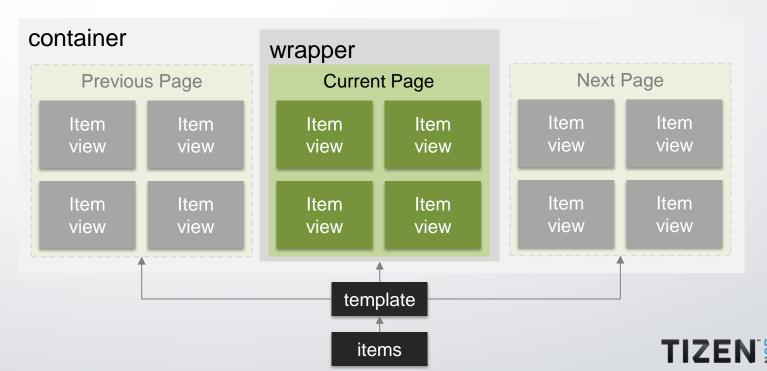
Focus Controller Provider

- initial depth
- initial group of each depth
- key map reset
- keydown handler (before/after)
- disabled element focusing

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Scrollable Grid & List

- High performance scrollable component.
- Setting options & template view



Basic usage - AngularJS

Create by caphList directive, add list data on the scope

items - variable in expression

variable: the user defined loop variable

expression: a scope expression giving the collection to enumerate

{{\$index}}

\$first \$last \$even \$odd are also available

direction

By default, the scroll direction is 'horizontal'

Basic usage - jQuery

Define a template view to decorate the items in the list

Create a 'caphList' using the prepared resources

```
$('#list1').caphList({
   items: items,
   template: 'template1'
});
```

Event

jQuery('caph-list').eq(0).trigger('resize');

Event	Description
resize	If you change the list size manually, you should send this event. The window's resize event is processed automatically.
reload	Update the entire item views. By default, when appending new data to collection or removing the existing data from the tail of collection, the visible item views will be updated only if necessary. So if you change the all or some(excluding default case) data of collection, you should call this method to update item views.
moveup	Move to the up item.
moveright	Move to the right item.
moveleft	Move to the left item.
movedown	Move to the down item.

Properties

Object[] items string direction string container-class string wrapper-class string duration string ease number delay boolean loop number initial-item-index number mouse-scroll-area-size

Function on-decorate-item-view
Function on-focus-item-view
Function on-reach-start
Function on-reach-end
Function on-scroll-start
Function on-scroll-finish

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CAPH Showcase

