Hybrid Tips & Tricks

Android, iOS, Cordova, JavaScript, AngularJS, HTML5

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Java Developer In JavaScript Jungle

Agenda

- Shortest 5 Tips & Tricks
- Shorter 5 Tips & Tricks
- Short time, all this in 5 crazy minutes

@NetaCodeGirl

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Shortest 5 Tips & Tricks #1 #2

- **Use Angular scope $destroy event and method**

```
$scope.$on("$destroy", function() {
    createjs.Ticker.removeAllEventListeners();
    PromiseFactory.cancel(promise);
    iScroll.destroy();
});
```

- **Use iScroll for smooth scrolling for iOS**
  (Android has no problem with scrolling)

Shortest 5 Tips & Tricks #2 #3 #4

- **Use iScroll for smooth scrolling for iOS**
  (Android has no problem with scrolling)

- **Use Hammer.js for adding multi-touch gestures**
  - Recognizers:
    - Pan
    - Pinch
    - Press
    - Rotate
    - Swipe
    - Tap

- **Use JavaScript for hiding/removing elements from DOM, not CSS**

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Shortest 5 Tips & Tricks #4 #5

- **Use JavaScript for hiding/removing elements from DOM, not CSS**

    ```
    // JavaScript remove element
    element.remove(); parent.removeChild(child);

    // CSS hide element
    display: none;
    ```

- **Use unique non-cache query parameter to the image URL**
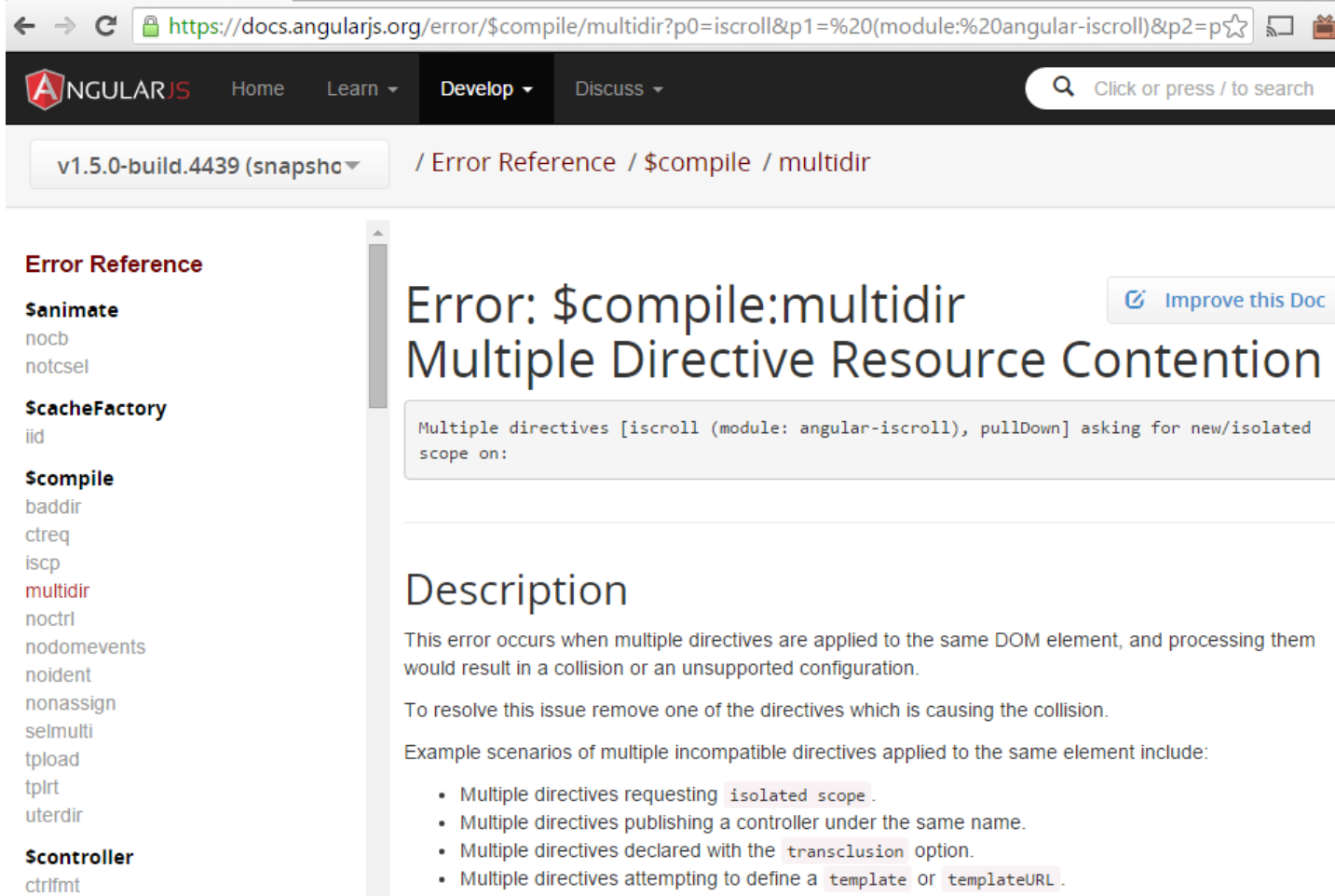
    ```
    cordova.file.dataDirectory + thumbnail + '?' + new Date().getTime();
    ```

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Shorter 5 Tips & Tricks #1

- **How to understand the console error messages in AngularJS?**

http://errors.angularjs.org/1.4.7/$compile/multidir?p0=iscroll&p1=%20(module%3A%20angular-iscroll)&p2=pullDown&p3=&p4=new%2Fisolated%20scope&p5=%3Cdiv%20class%3D%22iscroll-wrapper%22%20iscroll%3D%22%7BrefreshInterval%3A%20500%7D%22%20pull-down%3D%22%22%3E at http*://localhost:8383/mycare/www/vendor/angular/angular.js:68:12* at assertNoDuplicate *(http://localhost:8383/mycare/www/vendor/angular/angular.js:8563:15)* at applyDirectivesToNode *(http://localhost:8383/mycare/www/vendor/angular/angular.js:7942:15)* at compileNodes *(http://localhost:8383/mycare/www/vendor/angular/angular.js:7598:15)* at compileNodes *(http://localhost:8383/mycare/www/vendor/angular/angular.js:7610:15)* at compileNodes *(http://localhost:8383/mycare/www/vendor/angular/angular.js:7610:15)* at compileNodes *(http://localhost:8383/mycare/www/vendor/angular/angular.js:7610:15)* at **compile** *(http://localhost:8383/mycare/www/vendor/angular/angular.js:7505:15)* at http*://localhost:8383/mycare/www/vendor/angular-ui-router/release/angular-ui-router.js:4013:20* at invokeLinkFn *(http://localhost:8383/mycare/www/vendor/angular/angular.js:8789:9) <div ui-view="" class="view-container ng-scope" data-ng-animate="1">* (anonymous **function**)

Shorter 5 Tips & Tricks #1

JAVASKOP

https://docs.angularjs.org/error/$compile/multidir?p0=iscroll&p1=%20(module:%20angular-iscroll)&p2=p

ANGULARJS Home Learn ▾ **Develop** ▾ Discuss ▾ 🔍 Click or press / to search

v1.5.0-build.4439 (snapsho ▾ / Error Reference / $compile / multidir

Error Reference

$animate
nocb
notcsel

$cacheFactory
iid

$compile
baddir
ctreq
iscp
multidir
noctrl
nodomevents
noident
nonassign
selmulti
tpload
tplrt
uterdir

$controller
ctrlfmt

Error: $compile:multidir
Multiple Directive Resource Contention

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```
Multiple directives [iscroll (module: angular-iscroll), pullDown] asking for new/isolated
scope on:
```

Description

This error occurs when multiple directives are applied to the same DOM element, and processing them would result in a collision or an unsupported configuration.

To resolve this issue remove one of the directives which is causing the collision.

Example scenarios of multiple incompatible directives applied to the same element include:

- Multiple directives requesting `isolated scope` .
- Multiple directives publishing a controller under the same name.
- Multiple directives declared with the `transclusion` option.
- Multiple directives attempting to define a `template` or `templateURL` .

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- **Prevent initialization of controller twice if URL has params when using AngularUI Router as routing framework**

```
// AngularUI Router state
.state('app.numbers', {
    url: '/numbers/{timestamp}',
    templateUrl: 'numbers/templates/app.numbers.html',
    controller: 'NumberListCtrl'
})

// change state incorrectly
$state.go('app.numbers');
```

Shorter 5 Tips & Tricks #2

- **Prevent initialization of controller twice if URL has params when using AngularUI Router as routing framework**

```javascript
// AngularUI Router state
.state('app.numbers', {
    url: '/numbers/{timestamp}',
    templateUrl: 'numbers/templates/app.numbers.html',
    controller: 'NumberListCtrl'
})

// change state correctly
$state.go('app.numbers', {timestamp: ''});
```
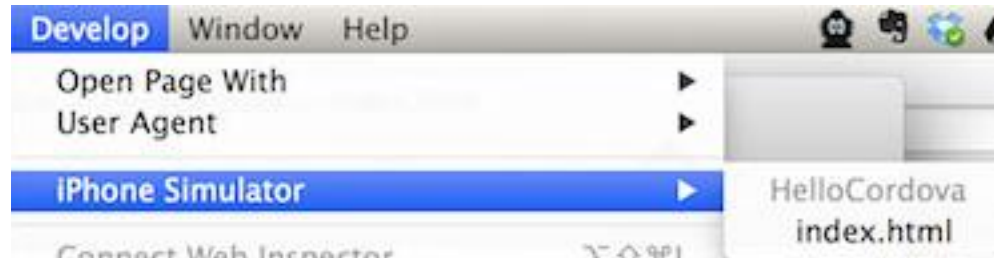
- **Delay Angular initialization process for debugging iOS app**

```
angular.module('myApp', [])
  .controller('MyController', ['$scope', function ($scope) {
    $scope.greetMe = 'JavaSkop 2015';
  }]);


angular.element(document).ready(function() {
  angular.bootstrap(document, ['myApp']);
});
```

- **Delay Angular initialization process for debugging iOS app**

```
angular.module('myApp', [])
   .controller('MyController', ['$scope', function ($scope) {
      $scope.greetMe = 'JavaSkop 2015';
   }]);

angular.element(document).ready(function() {
   setTimeout(function () {
      angular.bootstrap(document, ['myApp']);
   }, 10000); // 10 sec
});
```

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Shorter 5 Tips & Tricks #4

- **Getting response from Cordova plugin on JavaScript side**

```javascript
// JavaScript
window.getBase64Video(
  // … your code …
);


// Objective-C
- (void)getBase64Video:(CDVInvokedUrlCommand*)command {
  // … your code …
}
```

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Shorter 5 Tips & Tricks #4

- **Getting response from Cordova iOS plugin on JavaScript side**

```javascript
// JavaScript
$timeout(function () {
    window.getBase64Video(
      // … your code …
    );
}, 0);
```

```objc
// Objective-C
- (void)getBase64Video:(CDVInvokedUrlCommand*)command {
  // … your code …
}
```
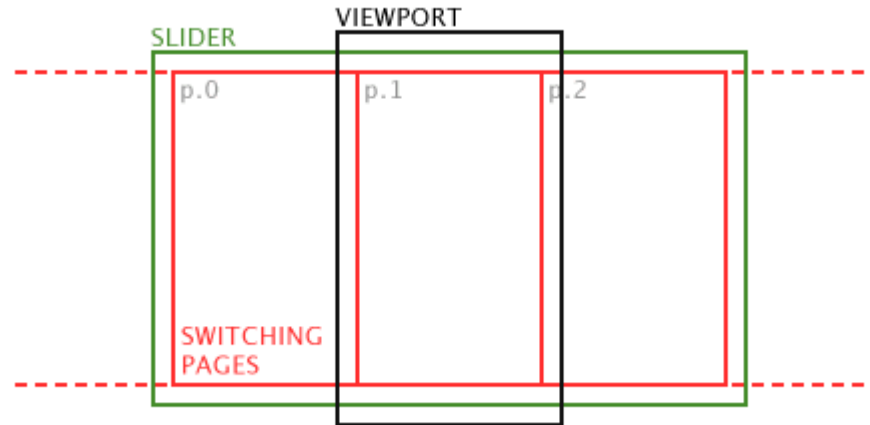
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Shorter 5 Tips & Tricks #4

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$timeout(function () {
    window.getBase64Video(
        // … your code …
    );
}, 0);


// Objective-C
- (void)getBase64Video:(CDVInvokedUrlCommand*)command {
    [self.commandDelegate runInBackground:^{
        // … your code …
    }];
}
```
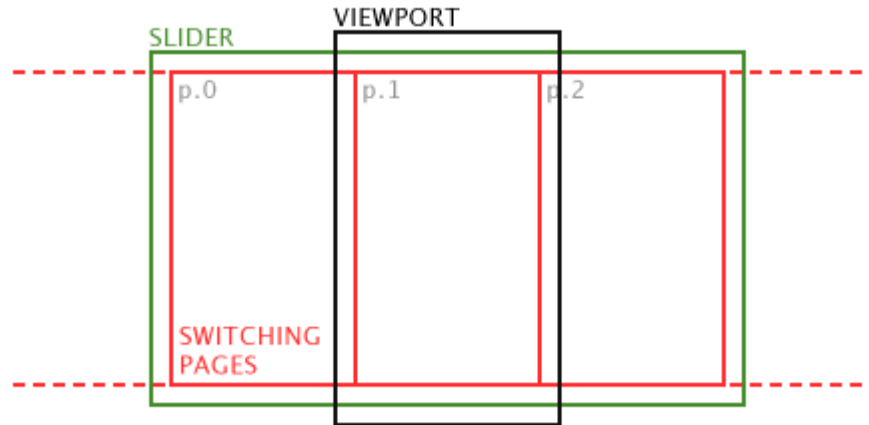
Shorter 5 Tips & Tricks #5

- **iScroll + snap + ngRepeat + refresh**

Shorter 5 Tips & Tricks #5

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```html
<div id="wrapper_browse">
    <div id="scroller_browse">
        <div ng-repeat="glasses in glassesArray">
            <img ng-src="data:image/png;base64,{{glasses.thumbnail}}"/>
```

```javascript
var iScroll = new IScroll('#wrapper_browse', { snap: 'div' });

iScroll.options.snap = document.querySelectorAll(
    'div#scroller_browse div'
);
iScroll.refresh();
```

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Shorter 5 Tips & Tricks #5

- **iScroll + snap + ngRepeat + refresh**

```html
<div id="wrapper_browse">
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- **iScroll + snap + ngRepeat + refresh**

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```javascript
var iScroll = new IScroll('#wrapper_browse', { snap: 'div' });

iScroll.options.snap = document.querySelectorAll(
  'div#scroller_browse div'
);
iScroll.refresh();
```

Thank You!

One short question?

One short answer!

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