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# **alight Documentation**

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**Oleg Nechaev**

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<b>1</b>	<b>API</b>	<b>3</b>
1.1	alight.debug . . . . .	3
1.2	alight.autostart = false . . . . .	3
1.3	alight.bootstrap(element) . . . . .	3
1.4	alight.applyBindings(scope, element, config) . . . . .	3
1.5	alight.Scope() . . . . .	4
1.6	alight.controllers . . . . .	4
1.7	alight.filters . . . . .	4
1.8	alight.directives . . . . .	4
1.9	alight.nextTick(callback) . . . . .	4
1.10	alight.getController(name, scope) . . . . .	4
<b>2</b>	<b>Scope</b>	<b>5</b>
2.1	Scope.\$watch(name, callback, option) . . . . .	5
2.2	Scope.\$compile(expression, option) . . . . .	5
2.3	Scope.\$eval(expression) . . . . .	6
2.4	Scope.\$watchText(tpl, callback) . . . . .	6
2.5	Scope.\$compileText(tpl) . . . . .	6
2.6	Scope.\$evalText(tpl) . . . . .	6
2.7	Scope.\$new(isolate) . . . . .	6
2.8	Scope.\$destroy() . . . . .	6
2.9	Scope.\$scan(callback or option) . . . . .	7
2.10	Scope.\$scanAsync(callback) . . . . .	7
2.11	Scope.\$getValue(name) . . . . .	7
2.12	Scope.\$setValue(name, value) . . . . .	7
<b>3</b>	<b>Create Directives</b>	<b>9</b>
3.1	Attributes of directive: . . . . .	10
<b>4</b>	<b>Inheritance of directives</b>	<b>11</b>
4.1	Examples of inheritance . . . . .	11
<b>5</b>	<b>Directives</b>	<b>13</b>
5.1	Events . . . . .	13
5.2	Controls . . . . .	13
5.3	Special directives . . . . .	14
5.4	Bind-once . . . . .	14
<b>6</b>	<b>Base filters</b>	<b>15</b>

6.1	data . . . . .	15
6.2	filter . . . . .	15
6.3	slice . . . . .	15
6.4	generator . . . . .	15
6.5	toArray . . . . .	16
6.6	orderBy . . . . .	16
6.7	throttle . . . . .	16
<b>7</b>	<b>Create filters</b>	<b>19</b>
7.1	Overview . . . . .	19
7.2	Input arguments . . . . .	19
7.3	alight.getFilter(name, scope, param) . . . . .	19
<b>8</b>	<b>Async filters</b>	<b>21</b>
8.1	Overview . . . . .	21
8.2	Input arguments . . . . .	21
8.3	Examples . . . . .	22
<b>9</b>	<b>Text bindings</b>	<b>23</b>
<b>10</b>	<b>Text directives</b>	<b>25</b>
10.1	Overview . . . . .	25
10.2	Input arguments . . . . .	25
10.3	Examples . . . . .	25
<b>11</b>	<b>One-time binding</b>	<b>27</b>
11.1	Overview . . . . .	27
11.2	Examples . . . . .	27
<b>12</b>	<b>Isolated Angular Light</b>	<b>29</b>
<b>13</b>	<b>Namespaces</b>	<b>31</b>
<b>14</b>	<b>A few ways to bind a model to the DOM</b>	<b>33</b>
14.1	1. Manual binding, applyBindings . . . . .	33
14.2	2. Auto binding, al-app . . . . .	33
14.3	3. Manual binding with alight.bootstrap . . . . .	33
14.4	4. Deferred binding, alight.bootstrap . . . . .	34
14.5	5. To bind to element with no DOM . . . . .	34
14.6	6. Manual binding #2 . . . . .	34
<b>15</b>	<b>Directive preprocessor</b>	<b>37</b>
<b>16</b>	<b>FAQ</b>	<b>39</b>
16.1	How can I take a scope? . . . . .	39

Contents:



## 1.1 `alight.debug`

Turn on a logging debug information

- `alight.debug.scan` - logging scan operations
- `alight.debug.directive` - logging binding directives
- `alight.debug.parser` - logging parsing expressions
- `alight.debug.watch` - logging function `$watch`
- `alight.debug.watchText` - logging function `$watchText`

## 1.2 `alight.autostart = false`

Don't call `alight.bootstrap` on start

## 1.3 `alight.bootstrap(element)`

Manual start applications, `element` - DOM element or array of elements. If `element` is undefined then Angular Light will start all `al-app` on the document. If `alight.autostart = true`, the method will be called after the DOM is ready

## 1.4 `alight.applyBindings(scope, element, config)`

Bind the scope to the DOM element

- `scope` - Scope object
- `element` - DOM element
- `config.skip_top = false` - Skip binding the top DOM element
- `config.skip_attr = ['al-repeat', 'al-app']` - Skip attributes for a binding, for the top element

```
var scope = alight.Scope();
var element = document.body;
alight.applyBindings(scope, element);
```

## 1.5 `alight.Scope()`

Create a (root) Scope

## 1.6 `alight.controllers`

Dictionary of controllers

## 1.7 `alight.filters`

Dictionary of filters

## 1.8 `alight.directives`

Dictionary of directives

## 1.9 `alight.nextTick(callback)`

Execute the function on next tick

## 1.10 `alight.getController(name, scope)`

Take a controller by name. A controller can be located in `alight.controllers`, in global scope



## 2.1 Scope.\$watch(name, callback, option)

Set the tracking variable. Also you can track system events, it returns object with method stop()

**Name:**

- **<expression>** - Expression/model
- **<a function>** - Track the result of the function, the function are called every iteration of \$scan.
- **“\$destroy”** - Track a destroying scope
- **“\$any”** - Track a modifying any object
- **“\$finishScan”** - a callback is executed as soon as \$scan finish work
- **“\$finishBinding”** - the callback is called when a binding process finishes, [sample](#)
- **“\$finishScanOnce”**

**Option:**

- **option = true** or **option.isArray = true** - watch an array
- **option.init = true** - Execute *callback*
- **option.readOnly = true** - You can use it if the *callback* doesn't modify the scope. (an optimization option).
- **option.deep = true** - a deep comparison for the object.
- **option.isArray**
- **option.OneTime**
- **option.onStop**

*Optimization tip:* If *callback* returns '\$scanNoChanges' then \$scan will not run extra-loop (like readonly watch)

## 2.2 Scope.\$compile(expression, option)

Compile an expression

**option:**

- **option.input** - list of input arguments
- **option.no\_return** - a function will not return any result (compile a statment)

- **option.string** - result of method will convert to string

Listing 2.1: Example of \$compile

```
var scope = alight.Scope()
var fn = scope.$compile('"hello " + title')
scope.title = 'linux'
fn() // return "hello linux"
scope.title = 'macos'
fn() // return "hello macos"
```

Listing 2.2: Example with input

```
var fn = scope.$compile('title + v', { input:['v'] })
fn(' X') // return "macos X"
```

Listing 2.3: Example with no\_return

```
var fn = scope.$compile('title = v', { input:['v'], no_return:true })
fn('linux') // scope.title = "linux"
```

## 2.3 Scope.\$eval(expression)

Execute an expression

## 2.4 Scope.\$watchText(tpl, callback)

Track the template

## 2.5 Scope.\$compileText(tpl)

Compile the template. Method is deprecated (since v0.9)

## 2.6 Scope.\$evalText(tpl)

Evaluate the template. Method is deprecated (since v0.9)

## 2.7 Scope.\$new(isolate)

Create a child Scope, if isolate == true, then child scope will not be inherited from parent scope, if isolate == 'root' then it will be separate root scope.

## 2.8 Scope.\$destroy()

Destroy the Scope.

Listing 2.4: Example with \$compileText

```

var scope = alight.Scope()
var fn = scope.$compileText('Hello {{title}}!')
scope.title = 'linux'
fn() // return "Hello linux!"

```

## 2.9 Scope.\$scan(callback or option)

Start the search for changes

- **callback** - Method will be called when \$scan finishes a work, even if \$scan has already started from other a place.
- **option.callback** - see above.
- **option.top** - Choose the root scope for current scanning (depricated).
- **option.late** = (*true/false*) - If there is a few \$scan commands, Angular Light will call only last one.

Listing 2.5: Example with \$scan

```

var scope = alight.Scope()
scope.$watch('title', function(value) {
  console.log('title =', value)
}) // make observing
scope.title = 'new'
scope.$scan()
// print title = new
scope.title = 'linux'
scope.$scan()
// print title = linux
scope.$scan()
// do nothing

```

## 2.10 Scope.\$scanAsync(callback)

It the same as `Scope.$scan({late: true, callback: callback})`

## 2.11 Scope.\$getValue(name)

Take the value of the variable, also you can use `Scope.$eval`

## 2.12 Scope.\$setValue(name, value)

Set the value of the variable

Listing 2.6: Example with \$setValue

```
scope.var = 1;
scope.path.var = 2;
scope.path[scope.key] = 3;

// equal
scope.$setValue('var', 1);
scope.$setValue('path.var', 2);
scope.$setValue('path[key]', 3);
```

---

## Create Directives

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Directives should be placed in **alight.directives.prefix**, you can choose any prefix, for example al-text ( *alight.directives.al.text* ), bo-text ( *alight.directives.bo.text* ), also you can place your directives in *scope.\$ns.directives* they will be private.

A hyphen should be changed to underscores, example: `<input al-my-some-directive />` it will be in `alight.directives.al`. **mySomeDirective**

The prefixes are needed in order to be able to catch the lack of used directives. For example, if you use the directive “al-texta”, but it does not exist (a mistake in the name or js-file isn’t loaded), then aLight will throw an exception.

An example of directive **al-text**, the directive is called when the binding process comes to an DOM-element

Listing 3.1: Example of directive al-text

```
alight.directives.al.text = function(element, name, scope, env) {
  // a function to set a text to the DOM-element
  var setter = function(text) {
    $(element).text(value)
  }

  // Track to the variable
  scope.$watch(name, setter, {
    init: true // Run the setter immediately
  });
};
```

### Input arguments:

- **element** - element of DOM
- **name** - value of attribute
- **scope** - current Scope
- **env** - access to different options
- env. **attrName** - name of attribute (directive)
- env. **attributes** - list of attributes
- env. **takeAttr(name, skip=true)** - take a value of the attribute, if skip=true then the attribute will skip a binding process, sample
- env. **skippedAttr()** - list of not active attributes.

## 3.1 Attributes of directive:

- **priority** - you can set priority for a directive
- **template** - custom template
- **templateUrl** - link to template
- **scope** (true/'isolate'/'root') - to make a child scope, an isolated scope (with no inheritance), a separate root scope
- **restrict** = 'A', can be 'AEM', 'A' matches attribute name, 'E' matches element name, 'M' matches class name
- **init** - the method is called when the directive is made, before template, scope
- **link** - the method is called after template, scope
- *anyAttr* - you can make a custom attribute, look. directive preprocessor

Listing 3.2: Directives with attributes

```
alight.directives.al.stop = {
  priority: -10,
  template: '<b></b>',
  scope: true,
  init: function(element, name, scope, env) {
    return {
      owner: true
    };
  },
  link: function(element, name, scope, env) {
  }
};
```

If a directive returns the flag `owner` `return { owner:true }`, then the process of binding will miss child DOM-elements, it is necessary for the directives which are themselves controlled subsidiary of DOM, such as `al-repeat`, `al-controller`, `al-include`, `al-stop`, etc.

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## Inheritance of directives

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If you want make inheritance of a directive, you need call a parent directive after that you can replace methods of the directive. For example, **al-value** has a few methods:

- onDom - binding to DOM
- updateModel - updateing the model
- watchModel - \$watch model
- updateDom - updateting DOM
- initDom - set first value to DOM, updateDom(init\_value)
- start - It's called when the directive is ready

Make a directive al-value with deferred updating of model:

Listing 4.1: Inherit al-value

```
alight.directives.al.valueDelay = function() {  
  // create a parent directive  
  var dir = alight.directives.al.value.apply(null, arguments);  
  
  // save the old method for update the model  
  var oldUpdate = dir.updateModel;  
  var timer = null;  
  
  // change the method  
  dir.updateModel = function() {  
    if(timer) clearTimeout(timer);  
    timer = setTimeout(function() {  
      timer = null;  
  
      // call the default method for update the model  
      oldUpdate();  
    }, 500);  
  }  
  return dir;  
}
```

### 4.1 Examples of inheritance

- al-value -> al-value-delay

- al-show -> al-show-slow
- al-repeat, add “\$seven”, “\$odd” into the directive
- al-repeat, change input expression my-repeat=”list.foreach item”
- al-repeat, change rendering



---

## Directives

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### 5.1 Events

- `al-click`, [todo sample](#)
- `al-dblclick`
- `al-submit`, [todo sample](#)
- `al-blur`, [Sample](#)
- `al-change`, [Sample](#)
- `al-focus`, [Sample](#)
- `al-keydown`, [Sample](#)
- `al-keypress`, [Sample](#)
- `al-keyup`, [Sample](#)
- `al-mousedown`, [Sample](#)
- `al-mouseenter`, [Sample](#)
- `al-mouseleave`, [Sample](#)
- `al-mousemove`, [Sample](#)
- `al-mouseover`, [Sample](#)
- `al-mouseup`, [Sample](#)

### 5.2 Controls

- `al-checked`, [todo sample](#)
- `al-radio` [sample1](#) [sample2](#)
- `al-value`, [todo sample](#)
- `al-disable`
- `al-enable`
- `al-focused`, two-way bind for focus events. [Sample](#)
- `al-readonly`

## 5.3 Special directives

- al-app, init application with current element, examples
- al-cloak, hide current element until activate the application, examples
- al-controller, apply a custom controller and make child scope for current element.
- al-class/al-css, [todo sample](#), [animated sample](#)
- **al-style** examples
- al-hide, [sample with animation](#)
- al-html
- **al-if**, [sample with animation](#)
- al-ifnot, [sample with animation](#)
- **al-include**, loads a html block from the server, [sample with animation](#)
- al-init
- al-repeat
- **al-show**, [sample with animation](#)
- al-src
- al-stop, stops a bind process for the element and his children.
- al-text, [example](#)

## 5.4 Bind-once

- bo-if
- bo-ifnot
- bo-repeat
- bo-src
- bo-switch
- bo-switchDefault
- bo-switchWhen

---

## Base filters

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### 6.1 data

- To convert the date to string
- Input argument: date

Listing 6.1: example

```
<div>{{when | date:yyyy-mm-dd }}</div>
```

### 6.2 filter

- To filter the list
- Input argument: variable

Example

### 6.3 slice

- To slice the list
- input arguments: numbers

Listing 6.2: example

```
<div al-repeat="it in list | slice:a"></div>  
<div al-repeat="it in list | slice:a,b"></div>
```

### 6.4 generator

- The filter makes an array (for al-repeat)
- input arguments: numbers

Example

Listing 6.3: example

```
<div al-repeat="it in 10 | generator"></div>
<div al-repeat="it in size | generator"></div>
```

## 6.5 toArray

- converts an object to array (for al-repeat)
- input arguments: key, value

Listing 6.4: example

```
<div al-repeat="item in object | toArray:key,value track by key">
```

Example

## 6.6 orderBy

- sorts an array by key (for al-repeat)
- input arguments: key, reverse

Listing 6.5: example

```
<div al-repeat="item in array | orderBy:key,reverse">
```

Example

## 6.7 throttle

- makes delay for output, pattern *debounce*
- input arguments: delay

Example

Listing 6.6: example

```
<input al-value="link" type="text" />
<p>{{link | throttle:300 | loadFromServer}}</p>
```



---

## Create filters

---

### 7.1 Overview

A filter should be placed in **alight.filters** (you can change path with *alight.getFilter*), or in `scope.$ns` for private filters.

Listing 7.1: Example filter

```
alight.filters.mylimit = function(exp, scope) {
  var ce = scope.$compile(exp);      // compile the input expression
  return function(value) {          // return handler
    var limit = Number(ce() || 5);
    return value.slice(0, limit)
  }
}
```

Example on jsfiddle

### 7.2 Input arguments

- expression - an input expression
- scope - current Scope

The filter should return a handler/function, one instance of filter.

### 7.3 `alight.getFilter(name, scope, param)`

This function look for a necessary filter, you can change it, for example you can make own location for your filters.





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## Async filters

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### 8.1 Overview

Async filters let you transform data in async mode, a filter should be placed in **alight.filters** or in `scope.$ns` for private filters.

Listing 8.1: Example of async filter

```
alight.filters.trottle = function(delay, scope, env) {
  delay = Number(delay);
  var to;
  return {
    onChange: function(value) {
      if(to) clearTimeout(to);
      to = setTimeout(function() {
        to = null;
        env.setValue(value);
        scope.$scan();
      }, delay);
    }
  }
}
```

### 8.2 Input arguments

- expression - an input expression
- scope - current Scope
- env - extra functional
- env.setValue(value) - set value of filter

Listing 8.2: Example of async filter

```
alight.filters.asyncFilter = function(expression, scope, env) {
  return {
    watchMode: 'deep',
    onChange: function(value) {},
    onStop: function() {}
  }
}
```

- `watchMode`, you can set `'simple'/'array'/'deep'`, if you need to change a watch mode for the input
- `onChange` - it's executed on every change of input
- `onStop` - it's executed when a watch object was removed

## 8.3 Examples

- Example `trottle`
- Example with loading from server

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## Text bindings

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It's a way to draw information to DOM:

```
<div>Hello {{name}}!</div>
<a href="http://example.com/{{link}}>link</a>
```

Also you can use method “bind once” for optimization, for that you should append “=” to begin of expression.

```
<div>Hello {{=name}}!</div>
<a href="http://example.com/{{=link}}>link</a>
```

Also you can use one time binding

If you can't use tags {{ }}, you can change this to {# #}, {< >}, ## ## or something like this, length of tags should be equal 2 symbols:

```
alight.utilits.pars_start_tag = '#{#';
alight.utilits.pars_finish_tag = '#}';
```

For complex text bindings you can use text directives



---

## Text directives

---

### 10.1 Overview

An able to control a declarative data binding in the HTML

Listing 10.1: example how to use text directives

```
<div al-app>
  counter {{#counter}}
</div>
```

Listing 10.2: text directive counter

```
alight.text.counter = function(callback, expression, scope) {
  var n = 0;
  setInterval(function() {
    n++;
    callback(n) // set result
    scope.$scan() // $digest
  }, 1000);
}
```

### 10.2 Input arguments

- **callback** - a function to set a value
- **expression** - expression of directive
- **scope**
- env. **finally** - a function to set the final value, after that \$watch will be removed.
- env. **\*\*setter\*\*** = callback

### 10.3 Examples

- Information output delay
- An counter
- Sample with bindonce



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## One-time binding

---

### 11.1 Overview

Waits when an expression has a value (a non-undefined value), then stops watching. You need append ":" in front of expression for using One-Time binding. It works with \$watch, \$watchText, directives and declarative bindings.

Listing 11.1: example

```
<div class="red {{::class}}"> {{::text}} </div>
<div al-show="::visible"></div>
<li al-repeat="it in ::list">...</li>
and so on
```

### 11.2 Examples

- Sample with declarative bindings
- Sample with al-repeat





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## Isolated Angular Light

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Angular Light can be invisible/inaccessible for alien code, you should make a function **alightInitCallback(alightBuilder)**, it has to be callable for Angular Light. Angular Light starts the function and gives “alightBuilder()” as an argument on load.

It's useful feature, when your webapp will be used on alien page. It lets use different versions of Angular Light on the same page.

- [Example 1](#)
- [Example 2](#)



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## Namespaces

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Every scope and child scopes of it can have own sets of directives, controllers and filters. You should make an object **\$ns** in scope. This can resolve conflict of names. This lets create private directives, filters and controllers.

If you want to inherit global directives, you may set **scope.\$ns.inheritGlobal = true**.

Example



---

## A few ways to bind a model to the DOM

---

### 14.1 1. Manual binding, applyBindings

Listing 14.1: html

```
<div id="app">
  <input al-value="title" type="text" class="form-control" />
  <p>{{title}}</p>
</div>
```

Make scope, then to bind it to the DOM with **alight.applyBindings**

Listing 14.2: code

```
var tag = document.querySelector('#app'); // take the tag

var scope = alight.Scope(); // make a Scope
scope.title = 'Hello!'; // set init value

alight.applyBindings(scope, tag); // apply bindings
```

[Example on jsfiddle](#)

### 14.2 2. Auto binding, al-app

**alight.bootstrap** is called on start system, it takes each element with **al-app** and execute **alight.applyBindings**

Listing 14.3: html

```
<div al-app al-init="title='Hello!'">
  <input al-value="title" type="text" class="form-control" />
  <p>{{title}}</p>
</div>
```

[Example on jsfiddle](#)

### 14.3 3. Manual binding with alight.bootstrap

You can bind custom elements with **alight.bootstrap**

[Example on jsfiddle](#)

Listing 14.4: html

```
<div id="app" al-init="title='Hello!'">
  <input al-value="title" type="text" class="form-control" />
  <p>{{title}}</p>
</div>
```

Listing 14.5: javascript

```
var tag = document.querySelector('#app'); // take the tag

alight.bootstrap([tag]); // bind to DOM
```

## 14.4 4. Deferred binding, alight.bootstrap

Listing 14.6: html

```
<div al-app al-init="title='Hello!'">
  <input al-value="title" type="text" class="form-control" />
  <p>{{title}}</p>
</div>
```

Example on jsfiddle

## 14.5 5. To bind to element with no DOM

Example on jsfiddle

## 14.6 6. Manual binding #2

Example on jsfiddle

Listing 14.7: javascript

```
alight.autostart = false;
setTimeout(alight.bootstrap, 2000);
```

Listing 14.8: html

```
<div id="app"></div>
```

Listing 14.9: javascript

```
var tag = document.createElement('div'); // make an element
// set up template
tag.innerHTML = '<input al-value="title" type="text" class="form-control" /><p>{{title}}</p>';
var scope = alight.Scope(); // make a scope
scope.title = 'Hello!'; // set init value

alight.applyBindings(scope, tag); // apply bindings

document.querySelector('#app').appendChild(tag); // append to DOM
```

Listing 14.10: html

```
<div id="app">
  <input al-value="data.name" type="text" />
  {{data.name}} <br/>
  <button al-click="click()">Set Hello</button>
</div>
```

Listing 14.11: javascript

```
alight.bootstrap({
  $el: '#app',
  data: {
    name: 'Some text'
  },
  click: function() {
    this.data.name = 'Hello'
  }
});
```





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## Directive preprocessor

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Directive preprocessor lets you control process of creating directives. You can make custom attributes and make different transformations.

Objects:

- **alight.directivePreprocessor** - a default preprocessor, you can change it
- **alight.directivePreprocessor.ext** - a list of handlers, you can append/remove them

Listing 15.1: Example how to create attribute 'bold'

```
alight.directivePreprocessor.ext.splice(1, 0, {
  code: 'bold', // not necessary
  fn: function() {
    if(this.directive.bold) this.element.innerHTML = '<b>' + this.element.innerHTML + '</b>'
  }
})
```

Listing 15.2: How ot use it

```
alight.directives.al.example = {
  bold: true
}
```

- [Example on plunkr](#)
- [Article \[ru\]: <>](#)



## 16.1 How can I take a scope?

- Have a scope by tags
- Publish a scope from controller
- Publish a scope using a directive
- Take a scope by a name of controller
- A way to take Scope by element - `alight.getScopeByElement(element)`
- A way to take Scope by element with a directive
- How to call Alert from al-click
- How to simplify `$parent.$parent.$parent...`
- An one scope for a few applications
- **Where can I take a debug version** [Here](#) you can get release and debug of any version, also you can use bower:  
`bower install alight`
- **Where is \$http service** Angular Light doesn't have it, you can use `jQuery.ajax` or anyone that you usually use.  
But there is `alight.f$.ajax` for inner purpose.
- **Angular Light updates a whole DOM or it tracks changes and update only changed elements?** Only changed elements.
- **I need Angular Light runs my function when a bindings process will finish.** You can observe it  
`scope.$on("$finishBinding", callback)`
- **Is it possible to pass jquery \$element to function from al-click? Something like al-click="someFunc(\$this)"**  
No, but you can extend the directive, or make a thin directive for this, [example](#)
- **How can I use al-repeat not as attribute, but as a comment?** al-repeat supports comment binding, [example](#)
- **Why al-show with an empty array doesn't hide my element: al-show="model.array"?**  
Because there is javascript and `!!model.array` always give you true, you can use  
`al-show="model.array.length"`
- **Where is "\$odd, \$seven, \$first, \$last, \$rest" for al-repeat?** You can append any attributes, [example](#) hot to append `$odd $seven`
- **How to sort an array?** [Manual sort](#) [Filter orderBy](#) [Sort props of an object](#) [Call a method](#)
- **Where is al-select directive?** [Here](#) a few examples with select control.

- **Can I rename directives?** Yes, `alight.directives.al.myKeypress = alight.directives.al.keypress`
- **How to call my function when Scope.\$scan finish digets process?** You can pass your function as callback `Scope.$scan(callback)`
- **How to redraw bind-once?** [Example](#)

[Examples](#)