

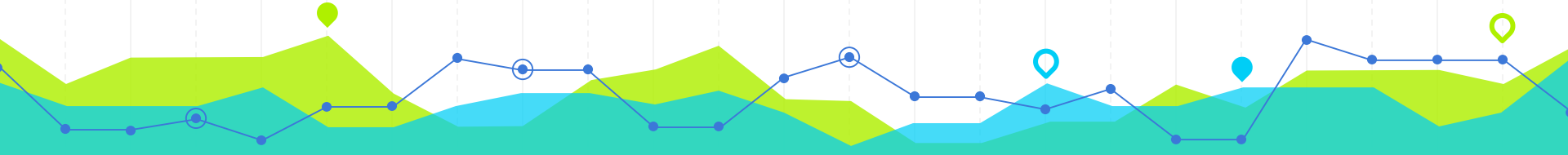


Angular

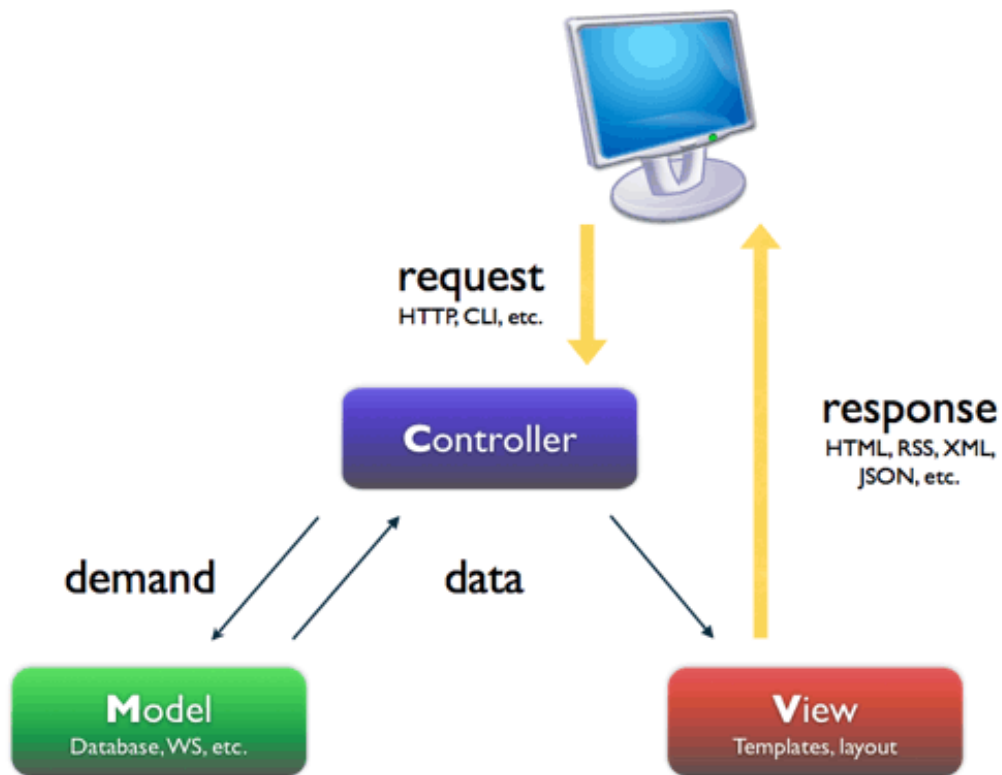


# AngularJS is a JavaScript Framework

- ◉ *single-page application*

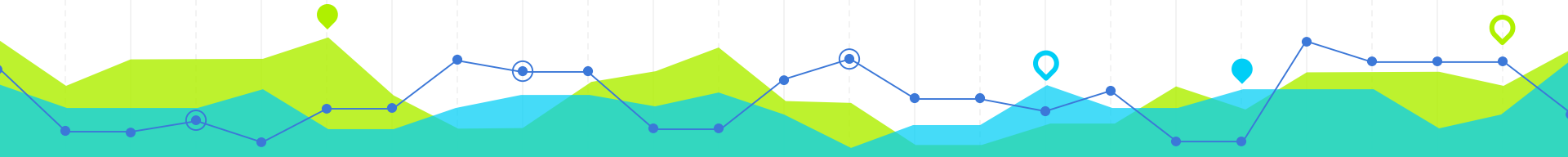


# MVC



# How to use

```
<script src="https://ajax.googleapis.com/ajax/libs/angularjs/1.6.4/angular.min.js"></script>
```



“

- ◉ *Directive*
- ◉ *Module*
- ◉ Expression



# Directive

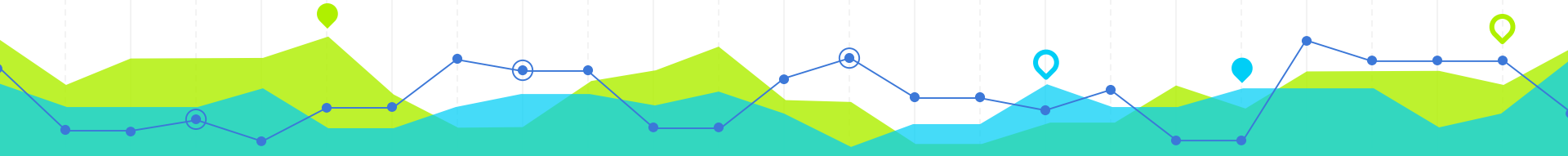
- ◉ *ng-repeat , ng-if , ng-app , ng-switch ....*





# Module

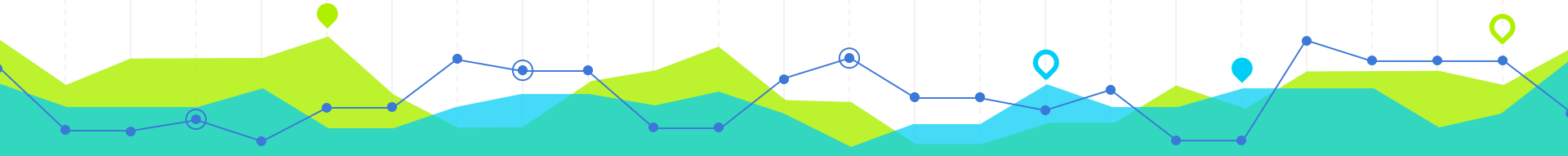
- ◉ *Var app = angular.module('myApp',[]);*





# Module

- `<html ng-app="myApp">`





“

```
<div ng-app="myApp">
<h1>Hello World</h1>
</div>

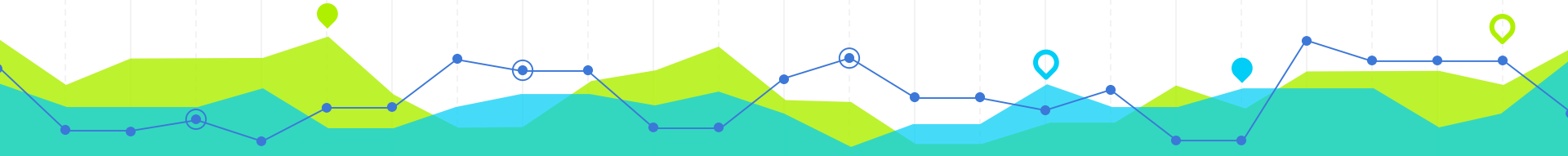
<script>
var app = angular.module("myApp", []);

</script>
```

“

# Expression

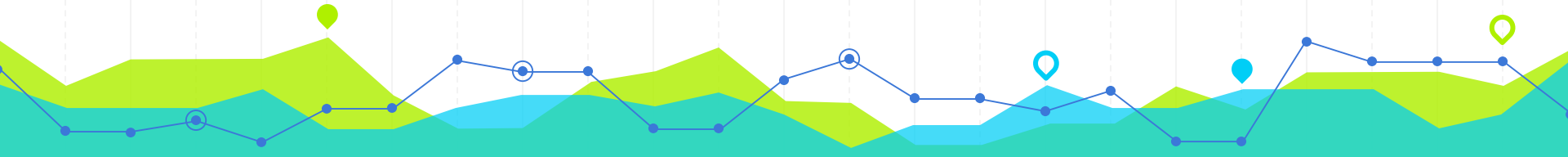
- *{{ expression }}*



“

## Lab 1

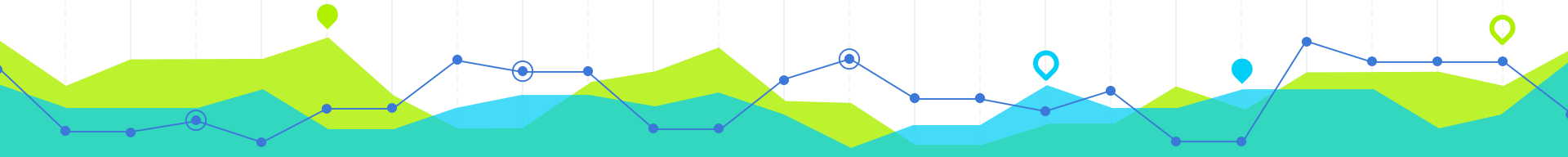
*Find summary  $(5*5)/2$  using three variables x,y and z*



“

## Lab 2

*Find index 0 in array `point[99,5,8,9,4]`*



“

# Controller

```
<div ng-app="myApp" ng-controller="myCtrl">  
<h1>Hello World</h1>
```



“

## Controller

```
var app = angular.module("myApp", []);  
app.controller('myCtrl', function() {  
});
```



“

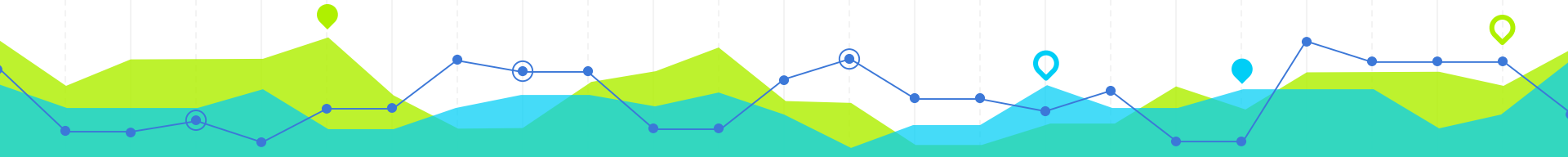
## Scope

```
app.controller('myCtrl', function($scope) {  
});
```



“

# Two-way Binding & Model





“

## Lab 3

*input 2 value and summary*





## Filter

- {{ expression | filter }}





## Filter

- {{ lowercase\_expression | lowercase }}
- {{ uppercase\_expression | uppercase }}





## Filter

- {{ date\_expression | date : format : timezone }}



'medium' : equivalent to 'MMM d, y h:mm:ss a' for en\_US locale (e.g. Sep 3, 2010 12:05:08 PM)

'short' : equivalent to 'M/d/yy h:mm a' for en\_US locale (e.g. 9/3/10 12:05 PM)

'fullDate' : equivalent to 'EEEE, MMMM d, y' for en\_US locale (e.g. Friday, September 3, 2010)

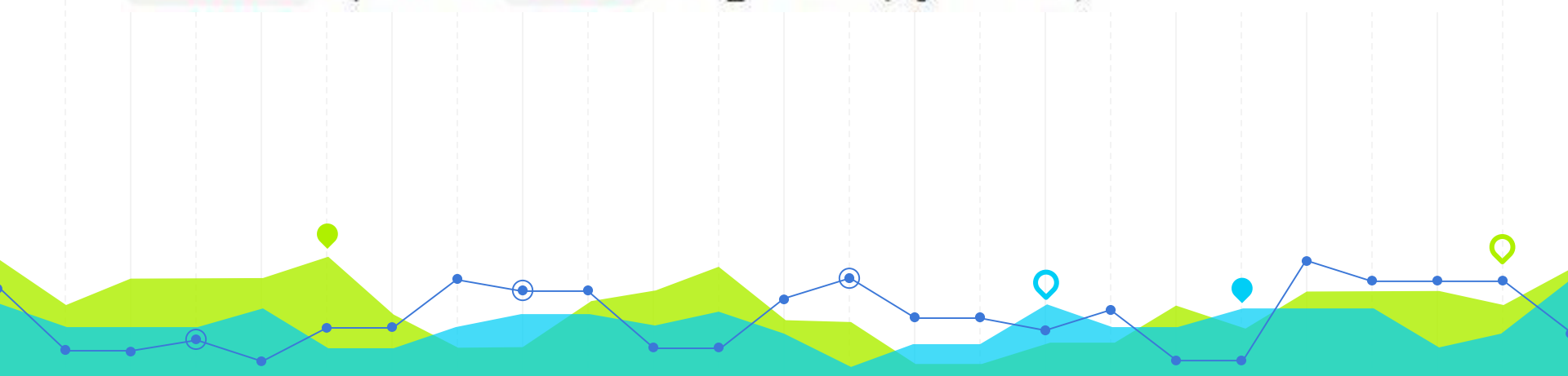
'longDate' : equivalent to 'MMMM d, y' for en\_US locale (e.g. September 3, 2010)

'mediumDate' : equivalent to 'MMM d, y' for en\_US locale (e.g. Sep 3, 2010)

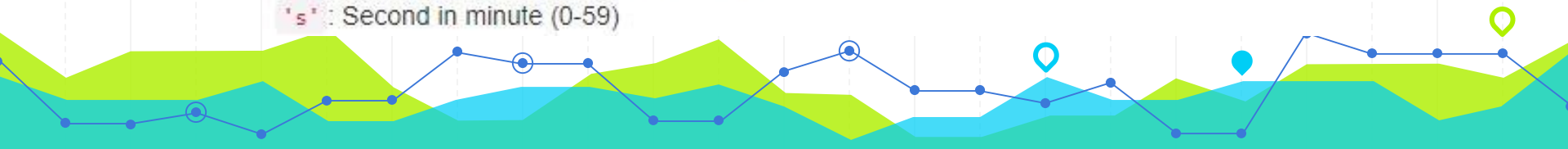
'shortDate' : equivalent to 'M/d/yy' for en\_US locale (e.g. 9/3/10)

'mediumTime' : equivalent to 'h:mm:ss a' for en\_US locale (e.g. 12:05:08 PM)

'shortTime' : equivalent to 'h:mm a' for en\_US locale (e.g. 12:05 PM)



'yyyy' : 4 digit representation of year (e.g. AD 1 => 0001, AD 2010 => 2010)  
'yy' : 2 digit representation of year, padded (00-99). (e.g. AD 2001 => 01, AD 2010 => 10)  
'y' : 1 digit representation of year, e.g. (AD 1 => 1, AD 199 => 199)  
'MMM' : Month in year (January-December)  
'MM' : Month in year (Jan-Dec)  
'M' : Month in year (1-12)  
'LLLL' : Stand-alone month in year (January-December)  
'dd' : Day in month, padded (01-31)  
'd' : Day in month (1-31)  
'EEEE' : Day in Week, (Sunday-Saturday)  
'EEE' : Day in Week, (Sun-Sat)  
'HH' : Hour in day, padded (00-23)  
'H' : Hour in day (0-23)  
'hh' : Hour in AM/PM, padded (01-12)  
'h' : Hour in AM/PM, (1-12)  
'mm' : Minute in hour, padded (00-59)  
'm' : Minute in hour (0-59)  
'ss' : Second in minute, padded (00-59)  
's' : Second in minute (0-59)





## Filter

- `{{ number_expression | number : fractionSize }}`



“

ng-repeat





“

ng-if



“

ng-class



## Lab 4 Set class even *"bg-warning"* and ODD *"bg-info"*

[

*{ id: "5002", type: "Glazed" },*

*{ id: "5005", type: "Sugar" },*

*{ id: "5007", type: "Powdered Sugar" },*

*{ id: "5006", type: "Chocolate with Sprinkles" },*

*{ id: "5003", type: "Chocolate" },*

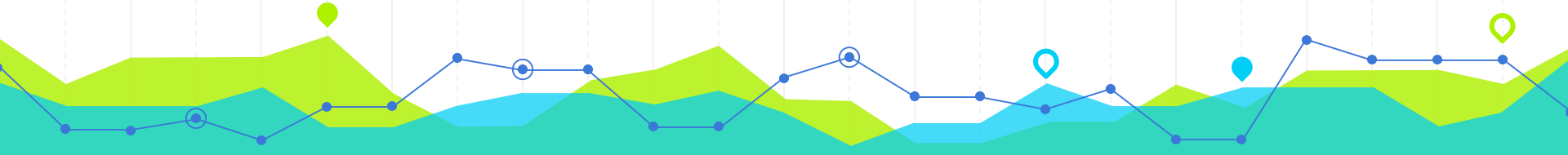
*{ id: "5004", type: "Maple" }*

]



“

ng-class-odd , ng-class-even



“

ng-click



“

ng-show , ng-hide



“

## Lab 5

*Input search string in array object*

*Data : lab4-5.html*

