



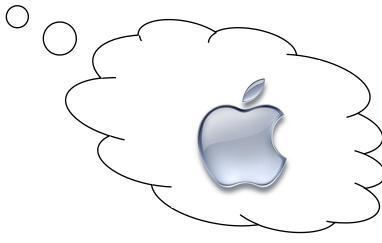
- 1. Dlaczego AngularJS?
- 2. Jak to działa?
- 3. Główne założenia.
- 4. Struktura aplikacji.
- 5. Kilka niezbędnych rad.
- 6. To naprawdę działa demo aplikacji.



## Dlaczego AngularJS ?







## Dlaczego angularJS ?



























## Dlaczego angularJS ?













## Dlaczego angularJS ?







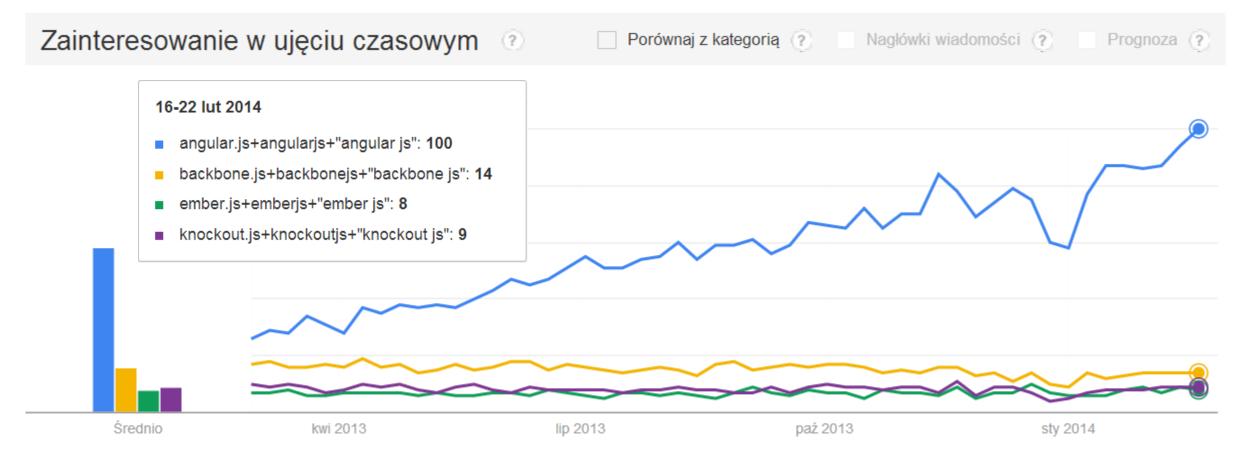






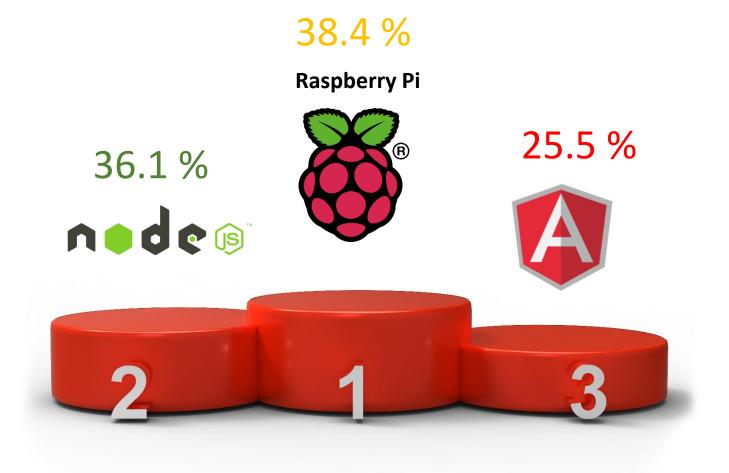






Hasło can.js+canjs+"can js" nie było wyszukiwane dość często, by pojawić się na wykresie. Spróbuj wybrać dłuższy okres.

photosiphox com





# 106 NEAT THINGS BUILT WITH













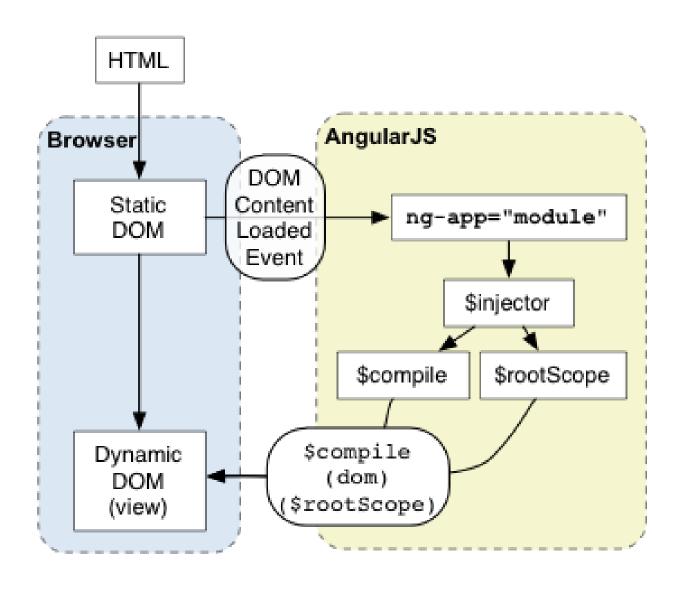






## Jak to dział ?

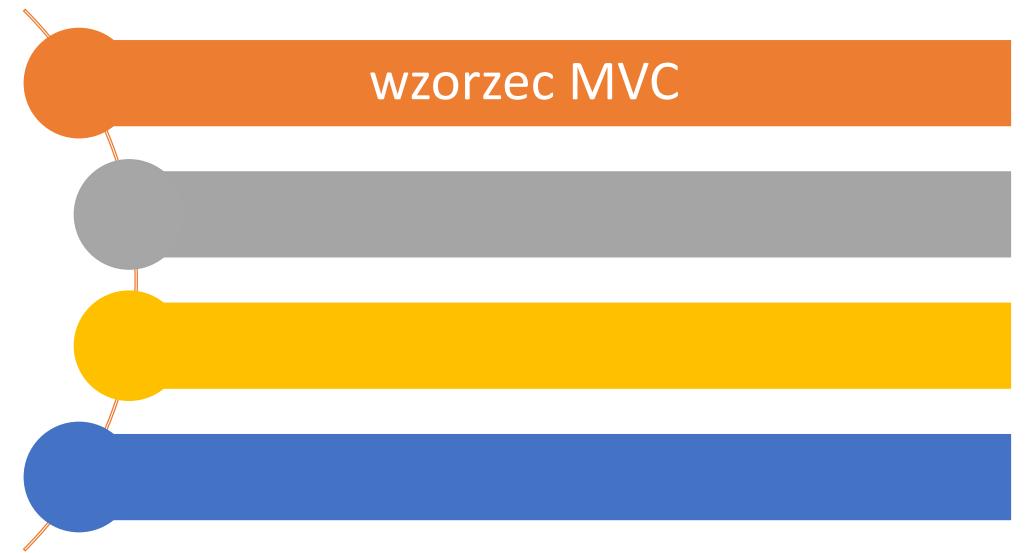
## Jak to dział ?



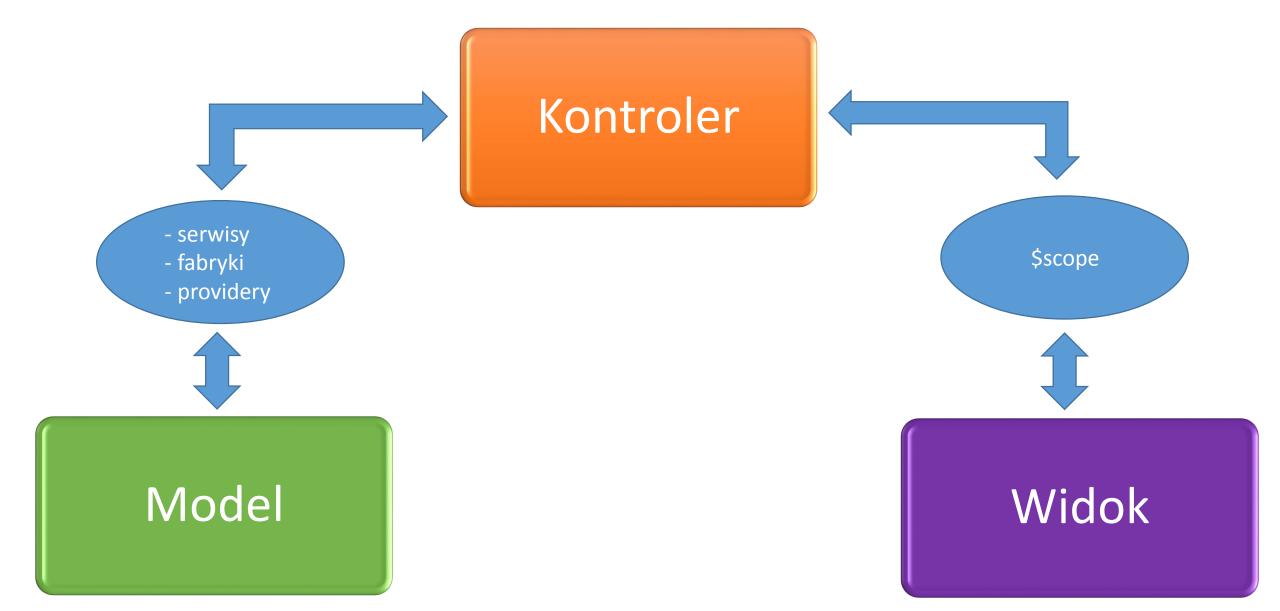
## Główne założeni



#### Superheroic JavaScript MVW Framework



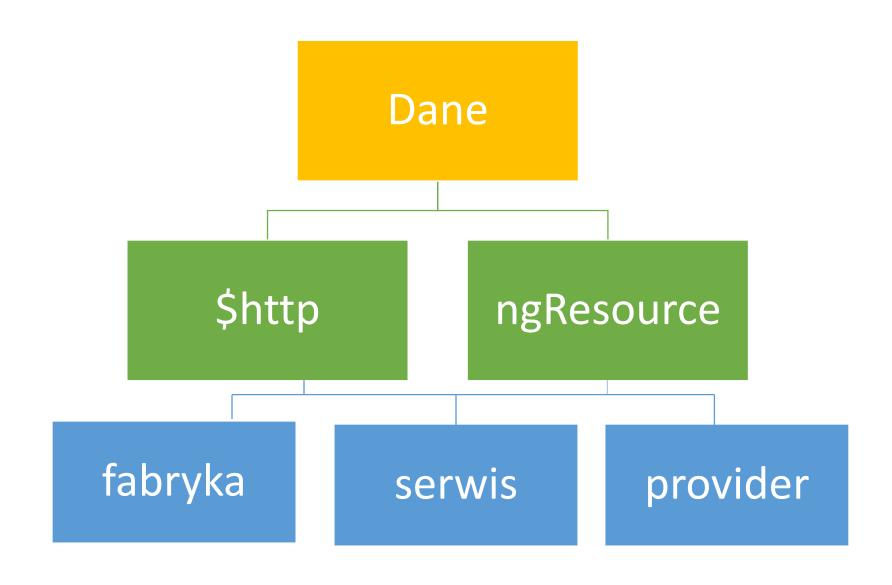




### Kontroler – obsługa żądań użytkownik

```
myAppModule.controller('ProductsController', function ($scope, productsFactory) {
   $scope.products = [];
   $scope.updateProduct = function (newPrice) {
      productsFactory.productManagerToController.get({ productID: 1 }, function (product) {
          product.price = newPrice;
          product.save();
       });
   };
   $scope.getAllProducts = function () {
       $scope.products = productsFactory.getProducts();
                                                              <div ng-controller="ProductsController" ng-init="getAllProducts()" class="panel panel-default">
   $scope.addProduct = function (newProduct) {
                                                                 <div class="input-group">
       productsFactory.productManagerToController.save({}, newProduct);
                                                                     <input ng-model="SearchPattern" class="" placeholder="Search" type="text" class="form-control">
                                                                 </div>
                                                                 $scope.deleteProduct = function (id) {
                                                                     productsFactory.productManagerToController.remove({ productId: i
                                                                         Name
                                                                         Price
});
                                                                         Count
                                                                         Actions
                                                                     {{product.Name}}
                                                                        {{product.Price}}
                                                                        {{product.Count}}
                                                                         <button class="btn btn-default" ng-click="updateProduct(product.Price+10)">Update</button>
                                                                         <button class="btn btn-default" ng-click="deleteProduct(product.Id)">Delete</button>
                                                                     </div>
```

#### Modele plikacji – zarządzanie danymi



### Modele plikacji – zarządzanie danymi

```
$http.get('api/GetProducts', {}).success(
function (data, status, headers, config) {
     // data from server
}).error(
function (data, status, headers, config) {
    // error
});
var dataToSend = {name: 'NewProduct1'};
$http.post('api/AddProduct', dataToSend, {}).success(
function (data, status, headers, config) {
    // data from server
}).error(
function (data, status, headers, config) {
    // error
});
myAppModule.factory('productsFactory',['$http',function($http){
    return {
        get: function (productId) {
            return $http.get('api/GetProduct' + '/' + productId);
    };
}]);
```

```
myAppModule.factory('productsFactory', ['$resource', function ($resource) {
   var factory = {};
   var products = [];
    var productManager = $resource('http://localhost:56537/api/Product/:action/:id',
   { productID: '@productID' }, {
        getAllProducts: { method: 'POST', params: { action: "GetProducts" }, isArray: true }
   factory.productManagerToController = productManager;
    factory.getProducts = function () {
        productManager.getAllProducts({}).$promise.then(function (products) {
            products.forEach(function (product) {
                products.push(product);
            })
     function (response) {
          // error
     });
        return products;
    return factory;
}]);
productsFactory.productManagerToController.get({ productID: 1 }, function (product) {
    product.price = newPrice;
    product.save();
});
$scope.getAllProducts = function () {
    $scope.products = productsFactory.getProducts();
```

### Modele Aplikacji – zarządzanie danymi

```
myAppModule.factory('productsFactory', function () {
   var factory = {};

   var products = [];

   factory.getProducts = function () {
      return products;
   }

   return factory;
});
```

#### fabryka

```
myAppModule.provider('productsProvider', function () {
    this.$get = function () {
       var products = [];
       return {
            getProducts: function () {
                return products;
            }
        }
    };
};
```

#### provider

```
myAppModule.service('productsService', function () {
    this.products = [];
    this.getProducts = function () {
       return products;
    };
};
```

#### serwis

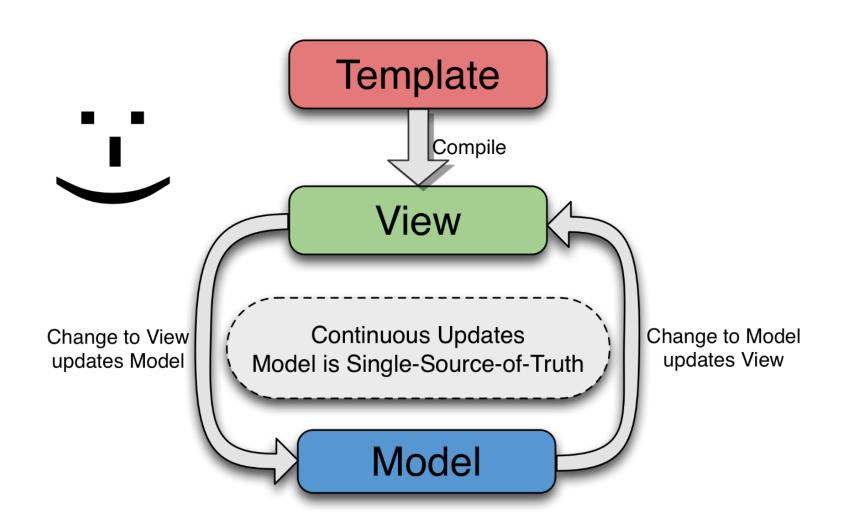


#### Superheroic JavaScript MVW Framework

#### wzorzec MVC

two way data binding

### Two way data binding





#### HTML

#### JavaScript

```
var myApp = angular.module('myApp',[]);

function MyCtrl($scope) {
    $scope.hello = 'Hello';
    $scope.name = ' ';
}
```

Big World

Hello, Big World!



#### Superheroic JavaScript MVW Framework

#### wzorzec MVC

two way data binding

rozszerzenie HTML

### ngularJS - dyrektywy

#### zdarzenia

- ngDblclick
- ngClick
- ngChange
- ngChacked
- ngCopy
- ngCut
- ngFocus
- ngKeydown, press, up
- ngMousedown, enter, leave, move, over, up
- ngSelected
- ngBlur
- ngPaste

#### dane

- ngModel
- ngRepeat
- ngForm
- ngSubmit
- ngList
- ngPluralize

#### widok

- ngStyle
- ngClass
- ngShow
- ngHide
- ngDisabled
- ngReadonly
- ngView
- ngBindHtml
- ngBindTemplate
- ngCloak
- nglf
- ngOpen
- ngSwitch

### ngularJS - dyrektywy

```
<div ng-controller="ProductsController" ng-init="getAllProducts()" class="panel panel-default">
  <div class="input-group">
     <input ng-model="SearchPattern" class="" placeholder="Search" type="text" class="form-control">
  </div>
  Name
        Price
        Count
        Actions
     {{product.Name}}
        {{product.Price}}
        {{product.Count}}
        >
           <button class="btn btn-default" ng-click="updateProduct(product.Price+10)">Update</button>
        >
           <button class="btn btn-default" ng-click="deleteProduct(product.Id)">Delete</button>
     </div>
```

### 

```
var INTEGER REGEXP = /^\-?\d*$/;
myAppModule.directive('integer', function () {
    return {
        require: 'ngModel',
        link: function (scope, elm, attrs, ctrl) {
             ctrl.$parsers.unshift(function (viewValue) {
                 if (INTEGER REGEXP.test(viewValue)) {
                      // it is valid
                      ctrl.$setValidity('integer', true);
                      return viewValue:
                 } else {
                      // it is invalid, return undefined (no model update)
                      ctrl.$setValidity('integer', false);
                      return undefined;
                                                                   <form>
                                                                       <div class="newProductForm">
             });
                                                                          <div>
                                                                              <input type="text" class="form-control" ng-model="newProduct.Name" />
});
                                                                          </div>
                                                                          <div>
                                                                              <input type="text" class="form-control" ng-model="newProduct.Price" />
                                                                          </div>
                                                                          <div>
                                                                              Count
                                                                              <input type="text" class="form-control" ng-model="newProduct.Count" integer/>
                                                                          </div>
                                                                          <div>
                                                                              <button class="addButton btn btn-defoult" ng-click="addProduct(newProduct)">Add product</button>
                                                                          </div>
                                                                      </div>
                                                                   </form>
```

```
<body>
    <div ng-controller="Ctrl">
        Enter number: <input ng-model='val'><br>
        Default formatting: {{val | number}}<br>
        No fractions: {{val | number:0}}<br>
        Negative number: {{-val | number:4}}

        </div>
    </body>
```

Enter number: 1234.56789

Default formatting: 1,234.568

No fractions: 1,235

Negative number: -1,234.5679

```
{{1288323623006 | date:'medium'}}: Oct 29, 2010 5:40:23 AM
{{1288323623006 | date:'yyyy-MM-dd HH:mm:ss Z'}}: 2010-10-29 05:40:23 +0200
{{1288323623006 | date:'MM/dd/yyyy @ h:mma'}}: 10/29/2010 @ 5:40AM
```

```
      Name (^) Phone Number Age

      John
      555-1212
      10

      Mary
      555-9876
      19

      Mike
      555-4321
      21

      Julie
      555-8765
      29

      Adam
      555-5678
      35
```

number

date

orderBY

## 

```
myAppModule.module('filters', []).
  filter('truncate', function () {
    return function (text, length) {
        if (text.length <= length) {
            return text;
        }
        else {
            return String(text).substring(0,length);
        }
    };
});</pre>
```



```
<div ng-app="MyModule">
       <input type="text" ng-model="text" placeholder="" />
    </div>
    <div>
       {{text|truncate:5}}
    </div>
</div>
```



weqweweqweqweqw

weqwe

#### Mary ngular JS – zarządzanie widokami częściowymi

```
myAppModule.config(function ($routeProvider) {
                                                       $routeProvider
                                                            .when('/List',
                                                                 controller: 'ProductsController',
                                                                 templateUrl: 'List.html'
                                                            .when('/AddProduct',
                                                                 controller: 'ProductsController',
                                                                 templateUrl: 'AddProduct.html'
                                                            .otherwise(
                                                                 redirectTo: '/'
                                                            });
                                                                                    <div ng-controller="ProductsController" ng-init="getAllProducts()" class="panel panel-default">
                                                   });
                                                                                       <div class="input-group">
<form>
                                                                                           <input ng-model="SearchPattern" class="" placeholder="Search" type="text" class="form-control">
   <div class="newProductForm">
                                                                                       </div>
      <div>
                                                                                       Name
                                                                                           <input type="text" class="form-control" ng-model="newProduct.Name" />
                                                                                               Name
      </div>
                                                                                              Price
      <div>
                                                                                              Count
         Price
                                                                                              Actions
         <input type="text" class="form-control" ng-model="newProduct.Price" />
                                                                                           </div>
                                                                                           <div>
                                                                                              {{product.Name}}
         Count
                                                                                              {{product.Price}}
         <input type="text" class="form-control" ng-model="newProduct.Count"/>
                                                                                              {{product.Count}}
      </div>
      <div>
                                                                                                  <button class="btn btn-default" ng-click="updateProduct(product.Price+10)">Update</button>
         <button class="addButton btn btn-defoult" ng-click="addProduct(newProduct)">Add product</button
                                                                                              >
      </div>
                                                                                                  <button class="btn btn-default" ng-click="deleteProduct(product.Id)">Delete</button>
   </div>
                                                                                           </form>
                                                                                       </div>
```



#### Superheroic JavaScript MVW Framework

#### wzorzec MVC

two way data binding

rozszerzenie HTML

testy jednostkowe

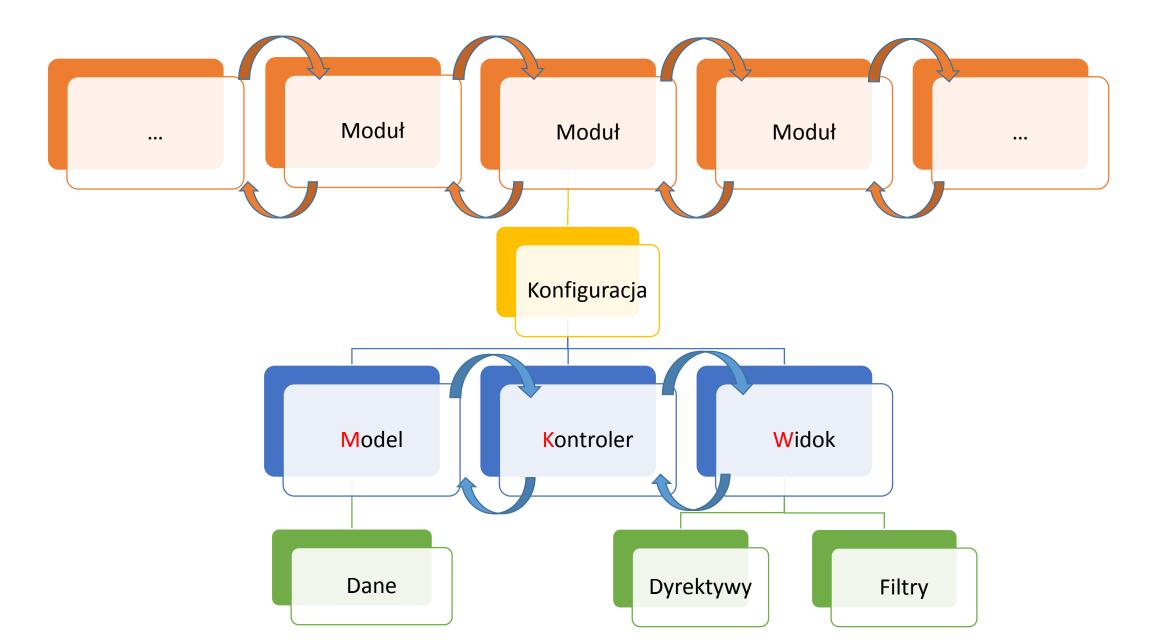
### Image of the sty jednostkowe

```
    describe('Buzz Client', function() {

it('should filter results', function() {
     input('user').enter('jacksparrow');
3.
     element(':button').click();
     expect(repeater('ul li').count()).toEqual(10);
5.
     input('filterText').enter('Bees');
     expect(repeater('ul li').count()).toEqual(1);
8. });
9. });
```

## Struktura plikacji

### Struktura (Applikacji



# Zalety wady?





Internet Explorer 8



Oficjalna dokumentacja AngularJS

## Kilka niezbędnych rudd



#### Uważaj na:

- > \$scope
- > \$rootScope
- Kontrolery

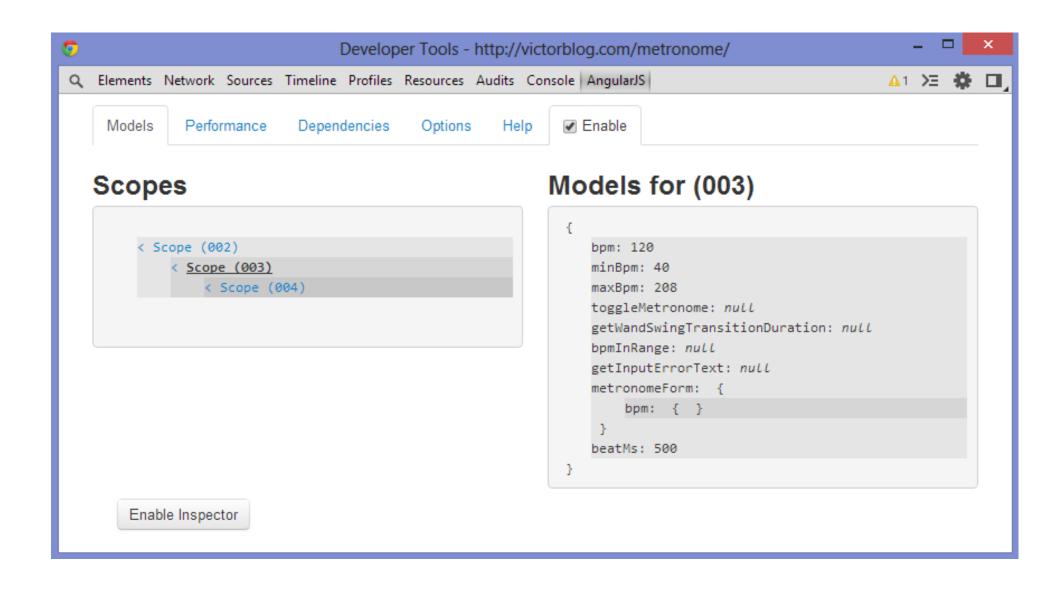
### Unikaj:

- Logika w widoku
- Odwołania z poziomu kontrolera do obiektów DOM
- ➤ Natłoku dyrektyw w jednym elemencie
- Zmienne i metody globalne

### Kilka niezbędnych r 🔼 d – kompilacja i utrzymanie



### Kilka niezbędnych r ad – debugowanie



#### **Performance**

Log to console

#### **Watch Tree**

```
Scope (002)|toggle
    function (){var
    a=d.url(),b=f.$$replace;if(!o||a!=f.absUrl())o++,c.$evalAsync(funct
    {c.$broadcast("$locationChangeStart",f.absUrl(),a).defaultPrevented
    f.$$parse(a):(d.url(f.absUrl(),b),i(a))});f.$$replace=!1;return
    o}
    function (){return c.hash()}

Scope (003)|toggle
    bpm
    bpm
    bpm
    toggle transition-duration:
    {{getWandSwingTransitionDuration()}};
    {swingLeft: swingLeft, swingRight: swingRight,
```

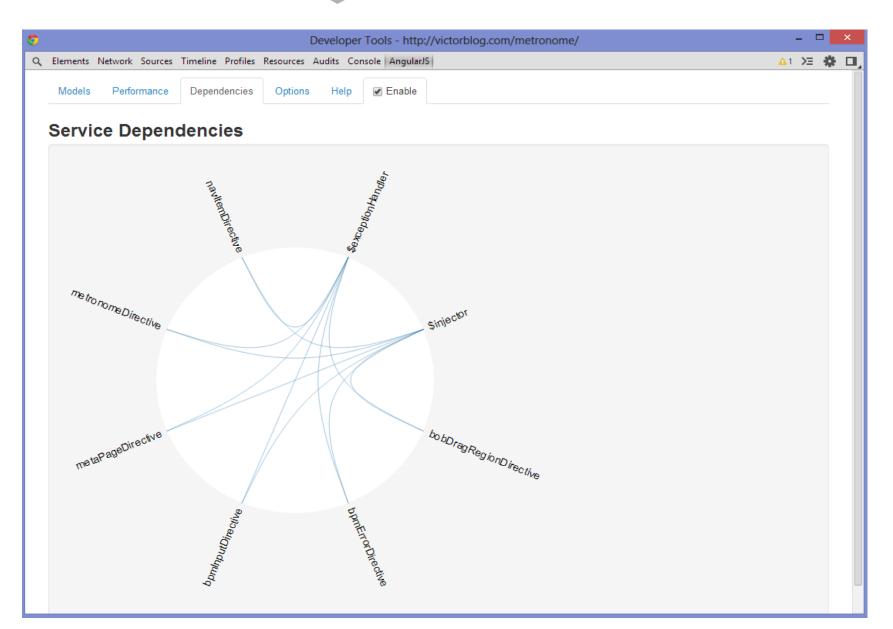
#### Watch Expressions

```
metronomeForm.bpm.$invalid | 16.7% | 1.000ms

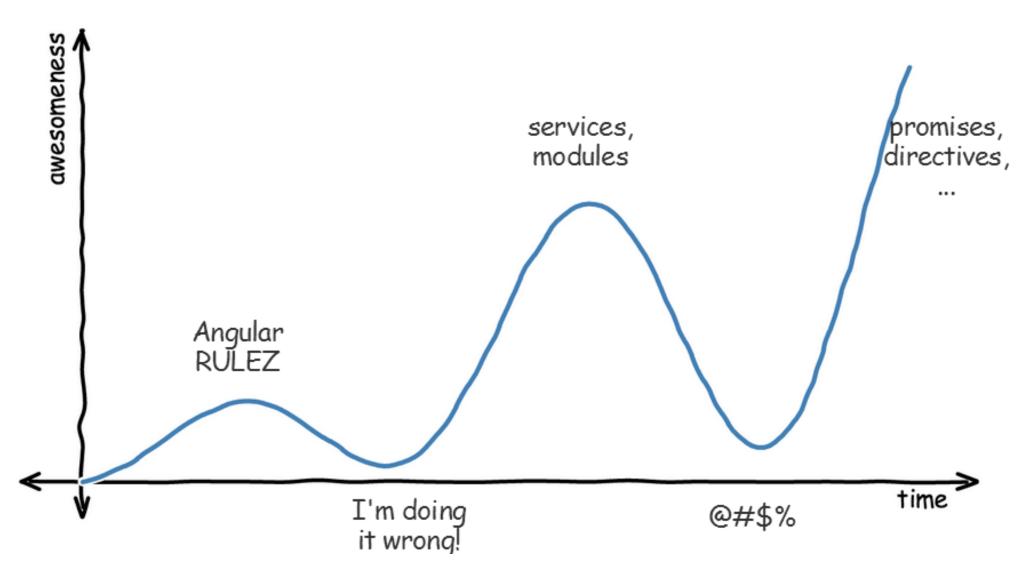
started | 16.7% | 1.000ms

function () {var
a=d.url(),b=f.$$replace;if(!o||a!=f.absUrl())o++,c.$evalAsync(fun
{c.$broadcast("$locationChangeStart",f.absUrl(),a).defaultPrevent
f.$$parse(a):
(d.url(f.absUrl(),b),i(a))});f.$$replace=!1;return o} | 16.7% |
1.000ms
```

### Kilka niezbędnych r 🔼 d – debugowanie







## Demo

## Dziękuję za uwagę!