ANGULARJS INTRO

@AJSZRH

GRACIAS!

colab-zurich.ch

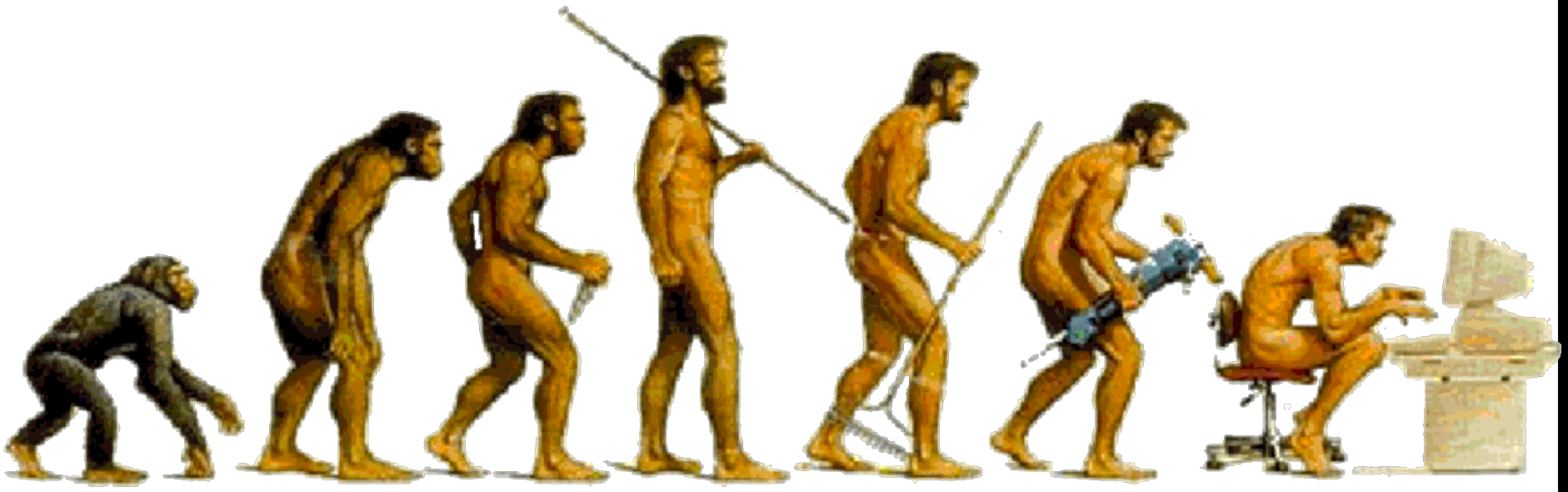
initiators

PANTAT GRAFIK2

AGENDA

- Where are we?
- AngularJS
- Let's build something
- Future of this group

SOME BACKGROUND



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Main Page

From Wikipedia, the free encyclopedia.

Other languages

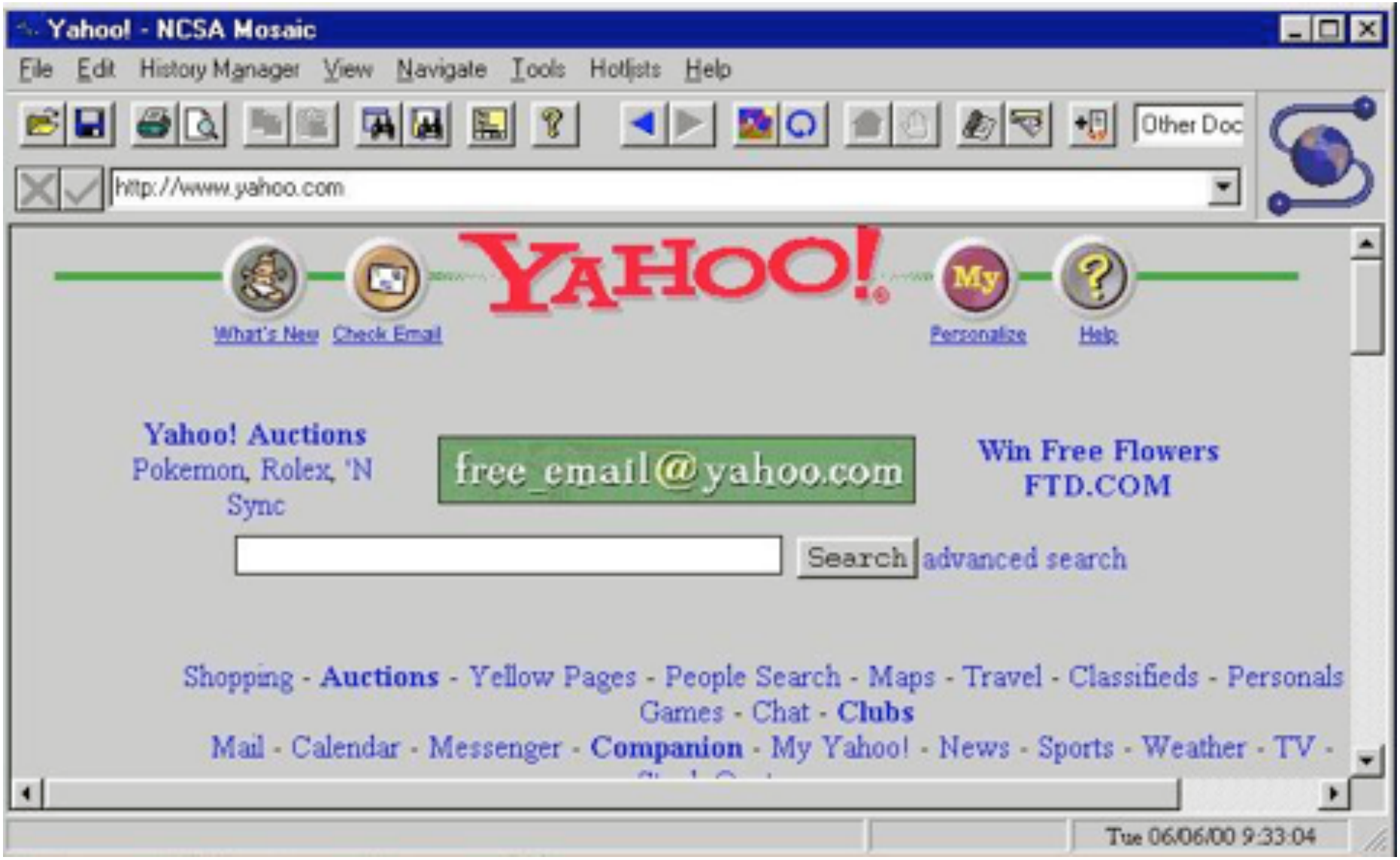
FAQs | Table-free

Welcome to Wikipedia, the free encyclopedia that anyone can edit.

In this English version, started in 2001, we are currently working on 723,507 articles.

Culture | Geography | History | Life | Mathematics | Science | Society | Technology

http://wikimediafoundation.org/wiki/Fund_drives/2005/Q3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Static HTML

Dynamic HTML

HTML + CSS + JavaScript

Dynamic web pages

Server rendered the HTML pages

Ajax: Asynchronous JavaScript XML

DOM manipulation

Model View ViewModel (MVVM)

The Single-Page App

WHAT IS ANGULARJS

HTML enhanced for web apps!

AngularJS is NOT

- **Library**
- **Does not abstract away HTML, CSS or JS**

AngularJS is

- **JavaScript Framework**
- **Extends HTML into more readable format**
- **Reduces DOM manipulation**
- **Allows easier testing**

DIRECTIVES & DATA BINDING

DIRECTIVES

AngularJS lets you extend HTML vocabulary for your application.

```
<html ng-app>
<head>
  <script src="../lib/angular/angular.js"></script>
</head>
<body>

<div ng-init="userName='Alice';">

    <H2> <span ng-bind="userName"></span> select pizzas to buy</H2>

    <input type="text" ng-model="userName">
```

ng-app
boostraps angular

ng-init directive

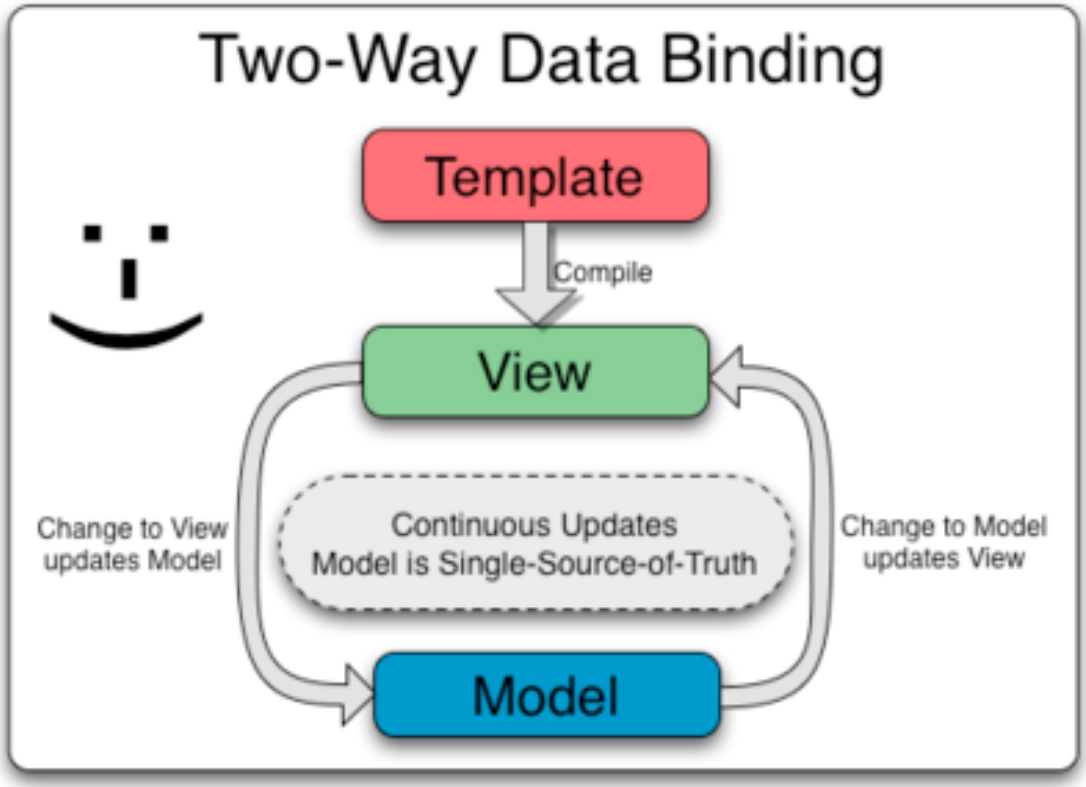
ng-model directive

LET'S START CODING SOMETHING

DIRECTIVES & DATA BINDING

DATA BINDING

Synchronization of data between the model and view components



docs.angularjs.org

GET REAL!

EXAMPLE APP

PIZZERIA …

Filter

Search

Both

Order by

Alphabetically

Showing 26 of 26 pizzas

Alla casalinga Vegetarian

Consists of a thin layer of dough which is stretched into an oiled, square 'Sicilian' pan, topped sparingly with shredded mozzarella, crushed uncooked canned tomatoes, chopped garlic and olive oil, and baked until the top bubbles and the bottom is crisp.

16.99 CHF

Buy

Bacon Cheese Burger Meat

Bacon/Ground Beef/Cheddar/Mozzarella Cheese

17.99 CHF

Buy

Cart

Pizza	Price	
BBQ Chicken	19.99 CHF	
Bacon Classic	16.99 CHF	

FILTERS

CONTROLLER 1

Filter

Search

Both

Order by

Alphabetically

Showing 26 of 26 pizzas

Alla casalinga Vegetarian

Consists of a thin layer of dough which is stretched into an oiled, square 'Sicilian' pan, topped sparingly with shredded mozzarella, crushed uncooked canned tomatoes, chopped garlic and olive oil, and baked until the top bubbles and the bottom is crisp.

16.99 CHF

Buy

Bacon Cheese Burger Meat

Bacon/Ground Beef/Cheddar/Mozzarella Cheese

17.99 CHF

Buy

CONTROLLER 2

Cart

Pizza	Price	
BBQ Chicken	19.99 CHF	
Bacon Classic	16.99 CHF	

SERVICE

$HTTP

VIEWS, CONTROLLERS & SCOPE

Business logic needed for each single view

VIEW

```
<body ng-app="pizzaRestaurantApp">

<div class="col-lg-12" ng-controller="pizzaListController">

  <H2>{{userName}} select pizzas to buy</H2>
```

Define module

Define controller

CONTROLLER

```
angular.module('pizzaRestaurantApp', [])
    .controller('pizzaListController', function ($scope) {

        $scope.userName = 'Alice';
```

$scope the glue between application controller and view

SERVICE $HTTP

Core Angular service connects to remote HTTP servers

Inject $http

```
angular.module('pizzaRestaurantApp', [])
    .controller('pizzaListController', function ($scope, $http) {

        $http({method: 'GET', url: 'pizzas.json'}).
            success(function(data) {
                $scope.pizzaList = data;
            });
```

Use it to get data!

SHOP EXAMPLE

VIEWS, CONTROLLERS & SCOPE

FILTERS

Filters format the value of an expression for display.

```
<h4>Filter</h4>
  <input  type="text" ng-model="searchFilter.$">


<h4>Order by</h4>
  <select class="form-control" ng-model="orderOption">
    <option value="name">Alphabetically</option>
    <option value="price">Lowest price</option>
  </select>


<UL ng-repeat="pizza in pizzaList | filter: searchFilter | orderBy: orderOption" >
  <LI>{{pizza.name | uppercase}}</LI>
</UL>
```

data

filter with argument

filter without argument

many filters to expression

SHOP EXAMPLE

FILTERS

SERVICES

Services are used to communicate controllers

Register service

```
angular.module('pizzaRestaurantApp', [])
    .factory('shopCartService', function(){

        var factoryInstance = {};

        var pizzaListCart = [];

        factoryInstance.addPizzaToCart = function(pizza) {
        };
        factoryInstance.getCart = function(){
        };

        return factoryInstance;
    })
    .controller('pizzaListController', function ($scope, $http, shopCartService) {
    }).
    controller('shopCartController', function($scope, shopCartService){
    });
```

Define functions

Return instance

Inject in controllers

SHOP EXAMPLE

SERVICES

FUTURE TOPICS

- **Routing**
- **Support framework: yeoman, grunt, bower**
- **Testing: Unit testing vs. e2e testing. Karma, Yasmine**
- **Talking to server**
- **Security: authentication and authorization**
- **Angular services**
- **Building Forms**
- **i18n and l10n**
- **Animations**
- **Directives**
- **Building phone apps with AngularJS**

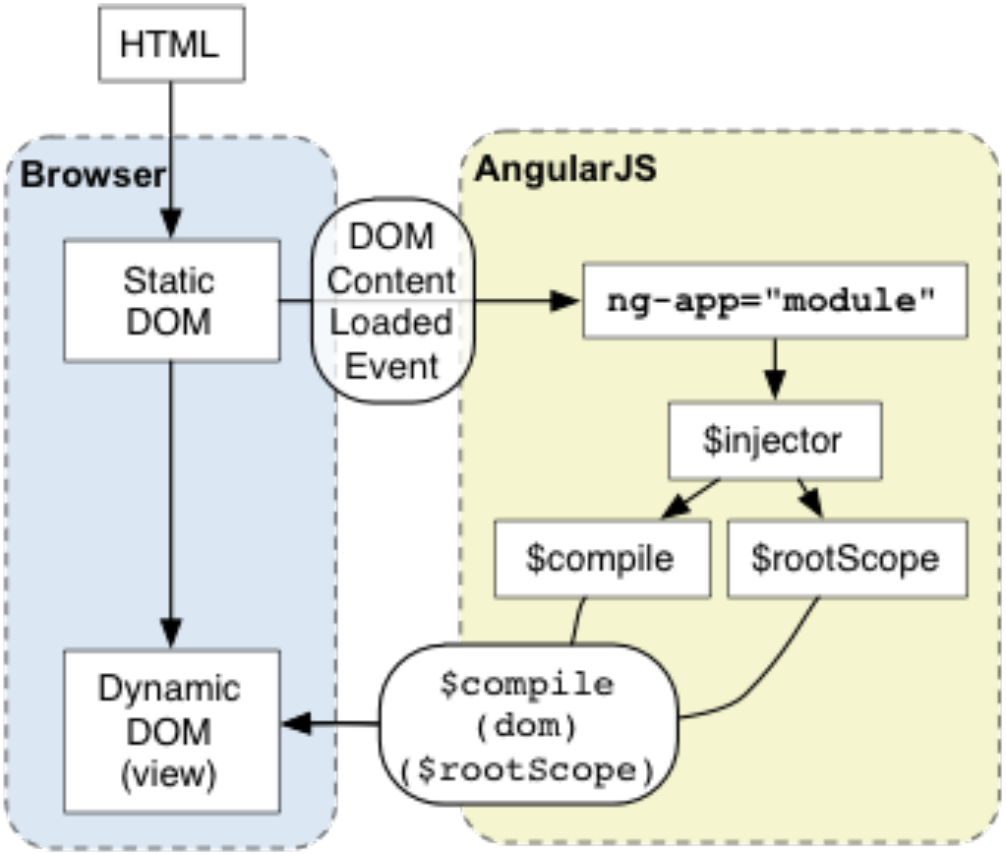
LEARN, SHARE & BUILD

MANY THANKS

http://about.me/Carlos_Morales

BEHIND THE SCENES

Initialization



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