



HTML5
CSS3

TOPICS

Introduction

Html Tags

Stylesheets

CSS3

DOM

HTML5

HTML



What is HTML

Hypertext

Describes the structure

Elements – the building blocks

Represented by tags

Tags are pieces like heading, para, table, list ...



History in brief

1991

Tim Berners-Lee invented HTML

1993

Dave Raggett drafted HTML+

1995

HTML Working Group defined HTML 2.0

1997

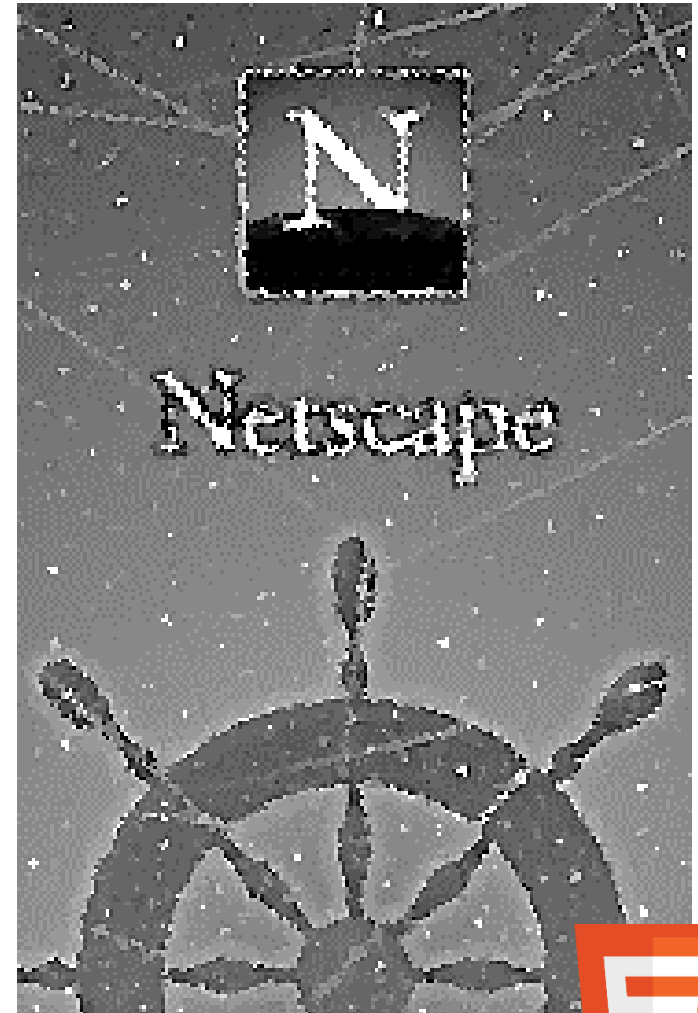
W3C Recommendation: HTML 3.2

1999

W3C Recommendation: HTML 4.01

2014

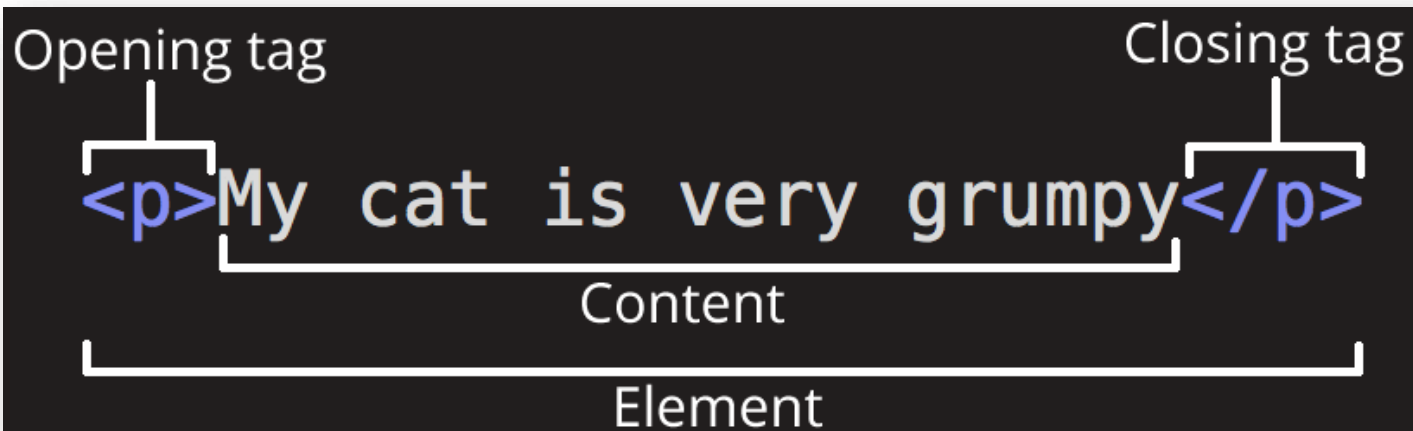
W3C Recommendation: HTML 5



HTML

HTML is a Markup Language used to tell the browser how to display the webpage.

```
<p>My cat is very grumpy</p>
```



Attributes

Elements may contain attributes that are used to set various properties of an element.

Ex?



Attributes

Some attributes are defined globally and can be used on any element, while others are defined for specific elements only.



Custom Attributes

data-x



HTML5

```
<!DOCTYPE html>
<html>
<head>
<meta charset="UTF-8">
<title> Title of the document </title>
</head>

<body>
Content of the document.....
</body>

</html>
```



HTML5 Storage

Like Cookies

Local Storage

Session Storage



HTML5 Events

User interaction with browsers

Click

Scroll

Swipe

Hover

Long press

Triggers JS / VB handlers



HTML5 input types

Email Input

Email

< > Done

Q	W	E	R	T	Y	U	I	O	P
A	S	D	F	G	H	J	K	L	
↵	Z	X	C	V	B	N	M	⌫	
123	🌐	space	@	.		return			

Telephone Input

Telephone

< > Done

1	2 ABC	3 DEF
4 GHI	5 JKL	6 MNO
7 PQRS	8 TUV	9 WXYZ
+ * #	0	⌫

Date Input

Date

< > Clear Done

July	22	2011
August	23	2012
September	24	2013
October	25	2014
November	26	2015
December	27	2016
January	28	2017



HTML5 Coding

Display an image



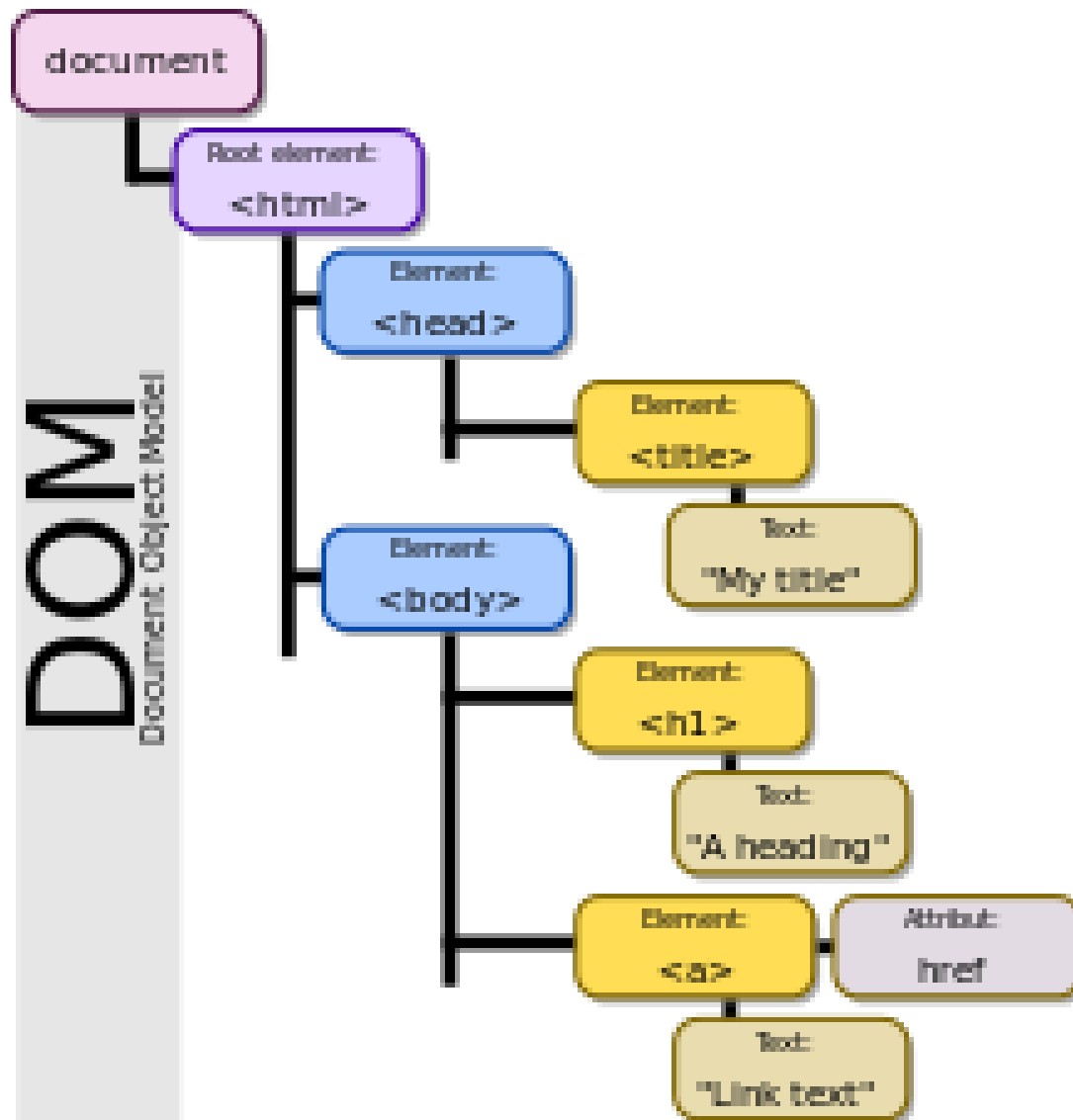
Linking external stylesheets, JS

```
<link href="build/main.css" rel="stylesheet">
```

```
<script src="cordova.js"></script>
```



DOM



HTML5 vs Flash



HTML5 Storage

Like Cookies

Local Storage

Session Storage



HTML5 WebSQL

Not part of HTML5 spec

Allows client-side DB Programming

```
openDatabase()
```

```
transaction()
```

```
executeSql()
```



HTML5 WebSocket

Next-gen comm tech

For WebApps

Exposes a single socket in JS

```
var Socket = new WebSocket(url, [protocol]);
```



HTML5 WebWorkers

Background threads

Offload computational intensive tasks



HTML5 Other Enhancements

Canvas

Audio / Video tags

Geo-Location

Drag & Drop

Slide Decks



css3



CSS3

Need for CSS

Why was it invented?



History in brief

1995

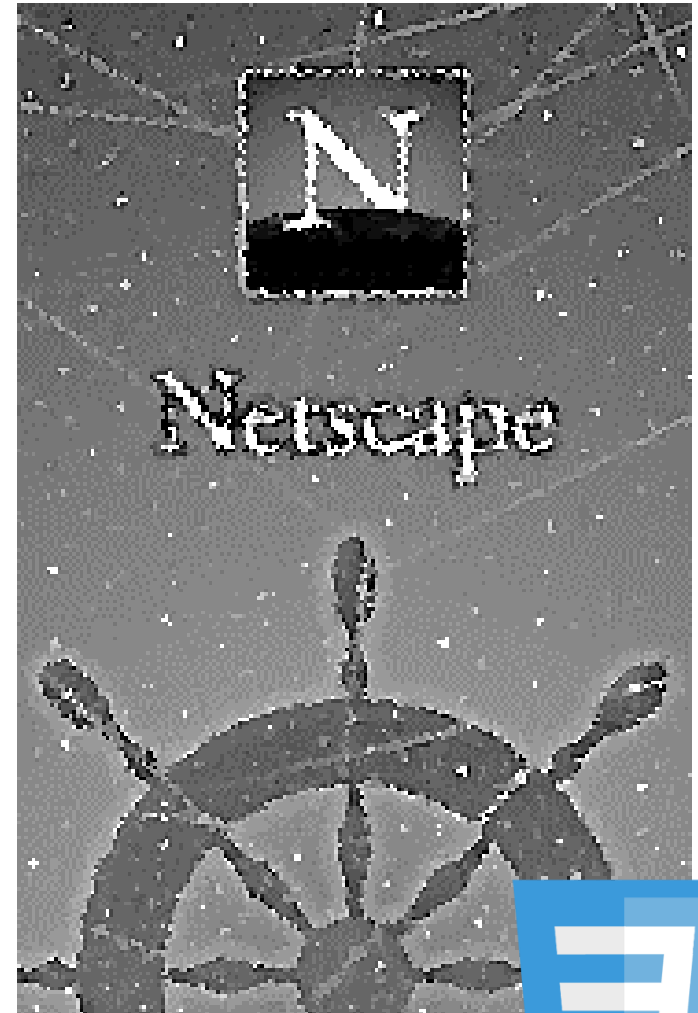
Livescript invented by
Brendan Eich at Netscape

2005

Jesse James coins Ajax

2008

ECMA Script 5 (ES5)
standardized



CSS Syntax

```
CSS
selector {
  property: value;
}
```



Selector Definitions

Universal *

Type p h1

Class .btn-large

ID #btn_1

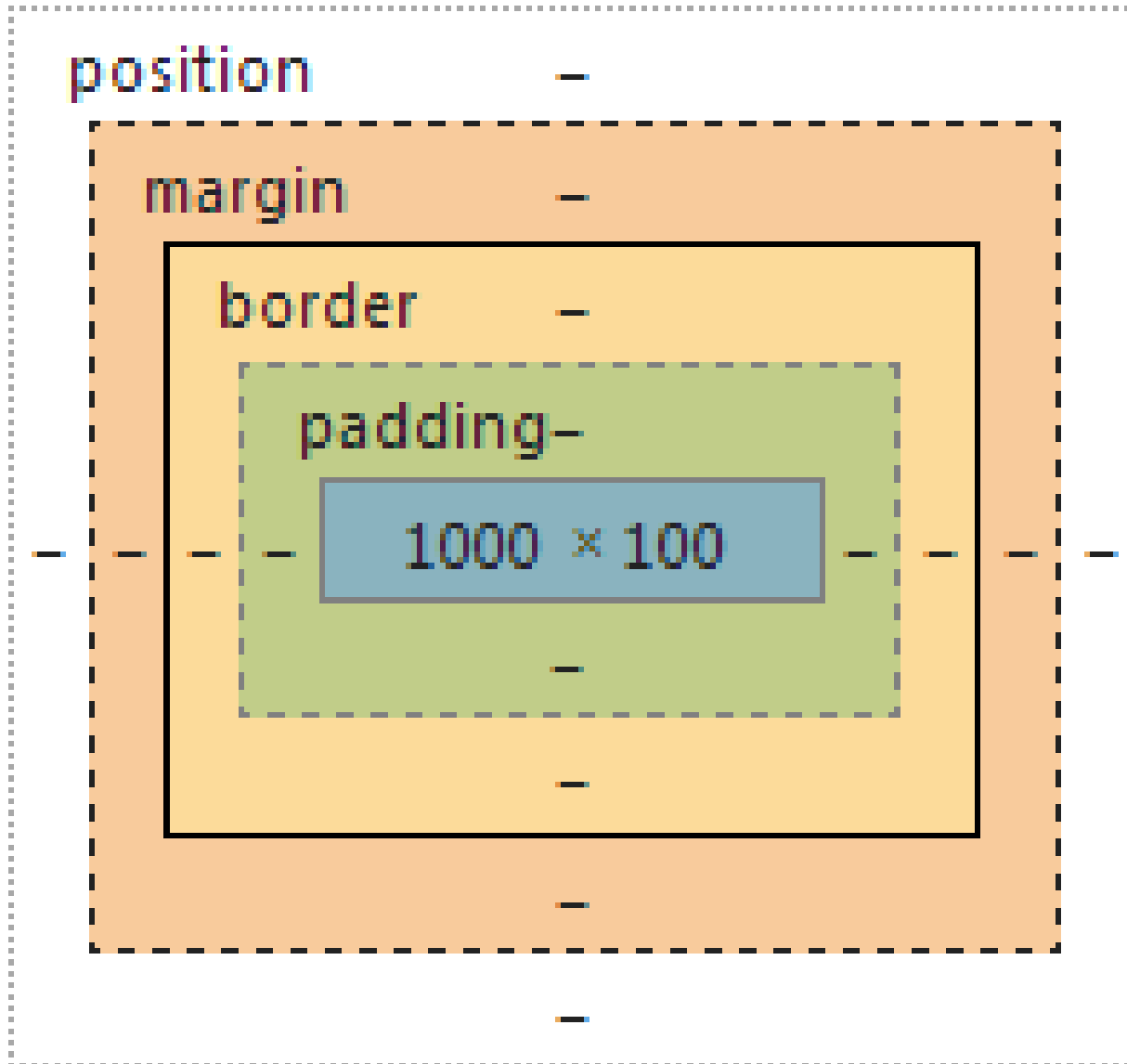
Descendent ul li

Child body > p

Attribute [type="text"]



CSS Box Model



Measurement Units

px

pt

%

mm, cm, in

em

vh, vw



Colors

keyword aqua, black

Short Hex #RGB

Hex Code #RRGGBB

RGB Abs rgb(r, g, b)



Text

color

Direction

text-align

text-decoration



Fonts

font-family

font-style

font-size



Stylesheets

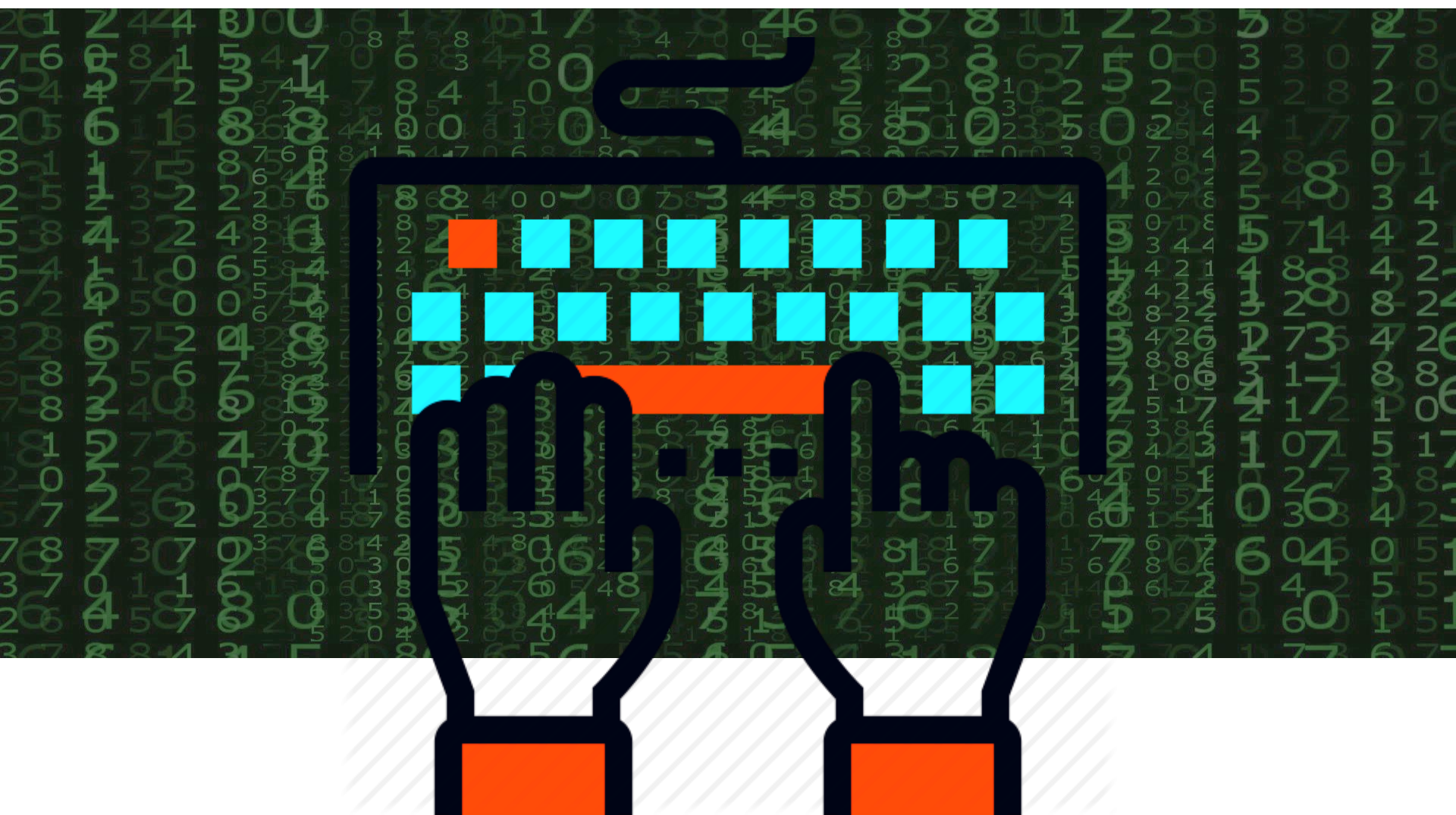
Inline

Internal

External



Lets code



SASS



MVC PATTERN

BONUS!

M

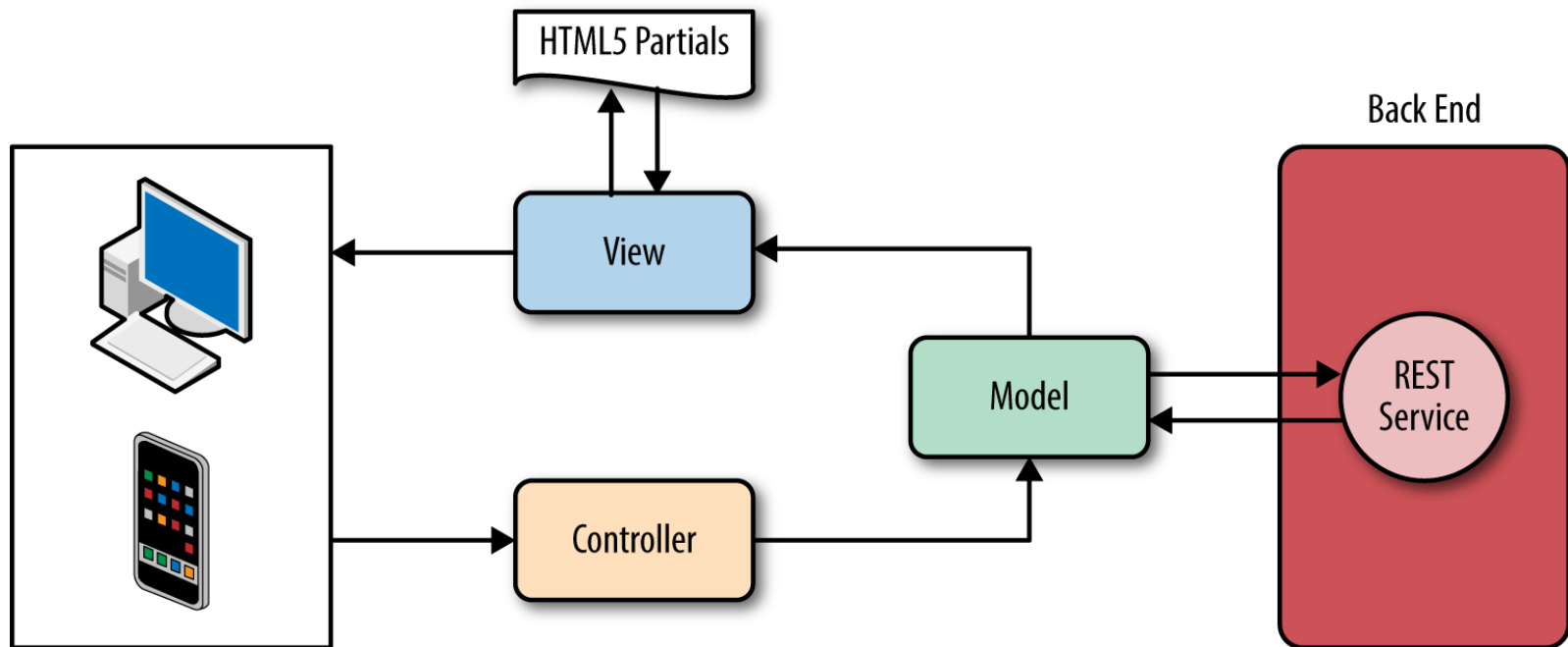
V

C

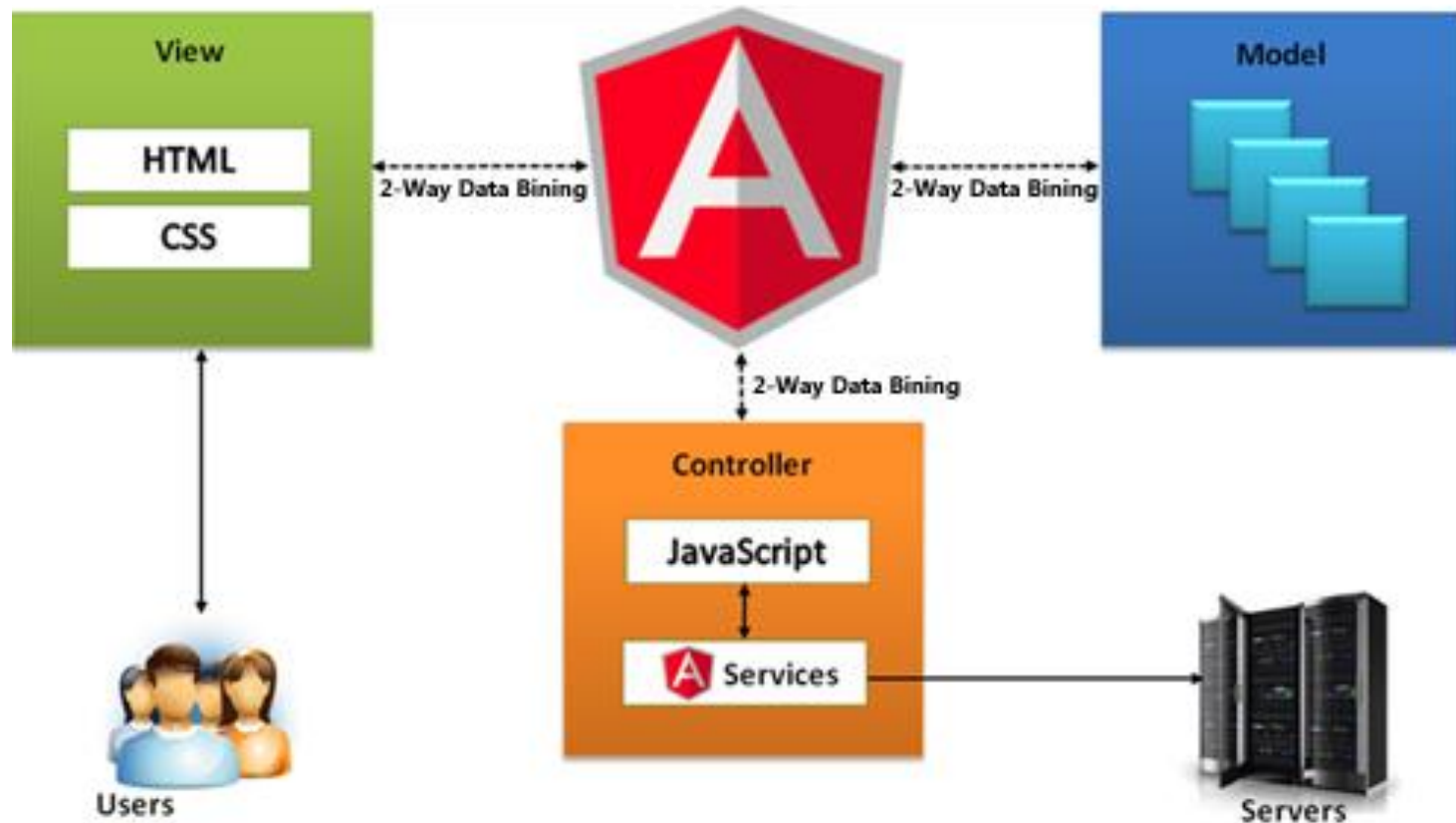


Architecture

MVC Pattern



MVC Implementation



Thank You!



iPad Pro
Super. Computer.



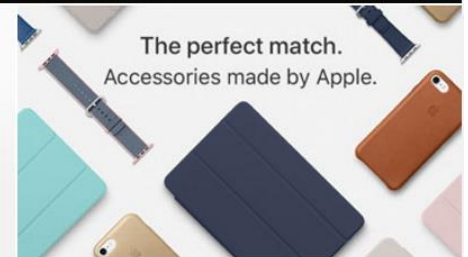
The new TV app. One place for everything you want to watch.



AirPods
Wireless. Effortless. Magical.



The perfect match.
Accessories made by Apple.



Shop and Learn

Mac
iPad
iPhone
Watch
TV
Music
iTunes
iPod
Accessories
Gift Cards

Apple Store

Find a Store
Genius Bar
Workshops and Learning
Youth Programs
Apple Store App
Refurbished and Clearance
Financing
Reuse and Recycling
Order Status
Shopping Help

For Education

Apple and Education
Shop for College

For Business

Apple and Business
Shop for Business

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Manage Your Apple ID
Apple Store Account
iCloud.com

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