

lecture 1

labs

TuWeTh, 6 - 8pm, Pierce 301

ideas

<https://projects.cs50.net/projects/mobile/>

web apps v. native apps

Device	Portrait	Landscape
iPhone 4	640 x 960 pixels	960 x 640 pixels
iPad	768 x 1024 pixels	1024 x 768 pixels
Other iPhone and iPod touch devices	320 x 480 pixels	480 x 320 pixels
Other iPhone and iPod touch devices	350 x 480 pixels	480 x 350 pixels

Carrier

12:53 PM



HARVARD

Search Harvard Mobile Web



People



Map



Shuttle
Tracker



Courses



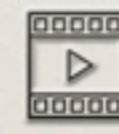
Library



Dining



News



Multimedia



Events

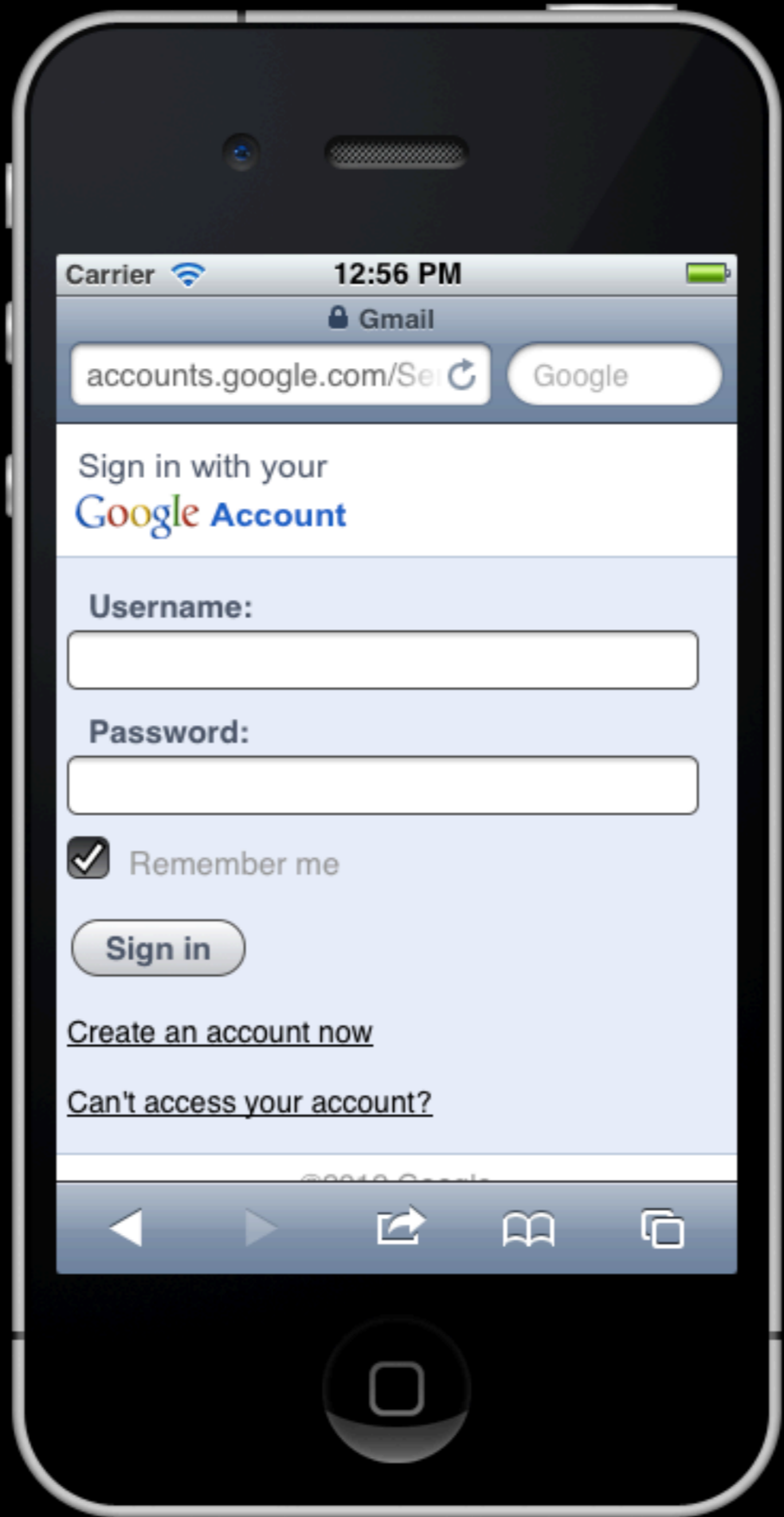


Athletics



Social





Carrier

12:56 PM



Gmail

accounts.google.com/Sei

Google

Sign in with your
Google Account

Username:

Password:

Remember me

Sign in

[Create an account now](#)

[Can't access your account?](#)

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```
<!DOCTYPE html>
```

```
<html>
```

```
  <head>
```

```
    <title>hello, world</title>
```

```
  </head>
```

```
  <body>
```

```
    hello, world
```

```
  </body>
```

```
</html>
```


viewport

height

initial-scale

maximum-scale

minimum-scale

user-scalable

width

apple-mobile-web-app-capable

```
<meta name="apple-mobile-web-app-capable" content="yes">
```

apple-mobile-web-app-status-bar-style

```
<meta name="apple-mobile-web-app-status-bar-style" content="black">
```

apple-touch-icon.png

```
<link rel="apple-touch-icon" href="/custom_icon.png">
```

apple-touch-icon-precomposed.png

```
<link rel="apple-touch-icon-precomposed" href="/custom_icon.png">
```

apple-touch-startup-image

```
<link rel="apple-touch-startup-image" href="/startup.png">
```

m.example.com

User-Agent

Mozilla/5.0 (iPhone; CPU iPhone OS 5_0_1 like Mac OS X) AppleWebKit/534.46
(KHTML, like Gecko) Version/5.1 Mobile/9A405 Safari/7534.48.3


```
if (preg_match('/iPad|iPhone|iPod/', $_SERVER['HTTP_USER_AGENT']))
{
    header('Location: http://m.example.com');
    exit;
}
```

```
if (preg_match('/iPad|iPhone|iPod/', $_SERVER['HTTP_USER_AGENT']))
{
    header('Location: http://m.example.com' . $_SERVER['REQUEST_URI']);
    exit;
}
```

WURFL

<http://dbapi.scientiamobile.com/wiki/>

<http://wurfl.sourceforge.net/nphp/>

CS50 Appliance

manual.cs50.net/Appliance

LAMP

Linux

Apache

MySQL

PHP

text editors

Emacs

gedit

Notepad++

TextWrangler

vim

...

IDEs

Aptana Studio

Eclipse

Geany

Komodo Edit

NetBeans

...

frameworks

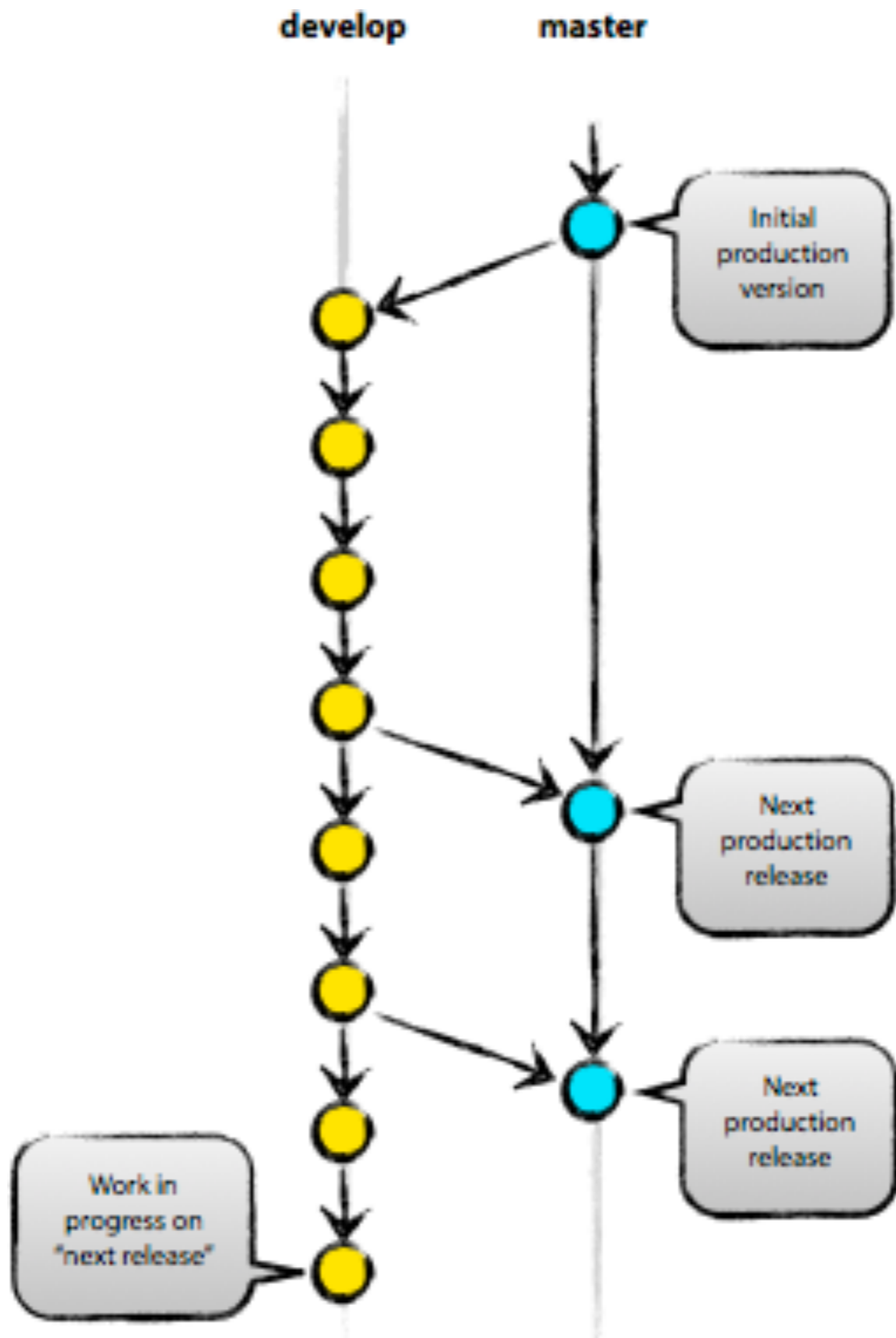
jQTouch

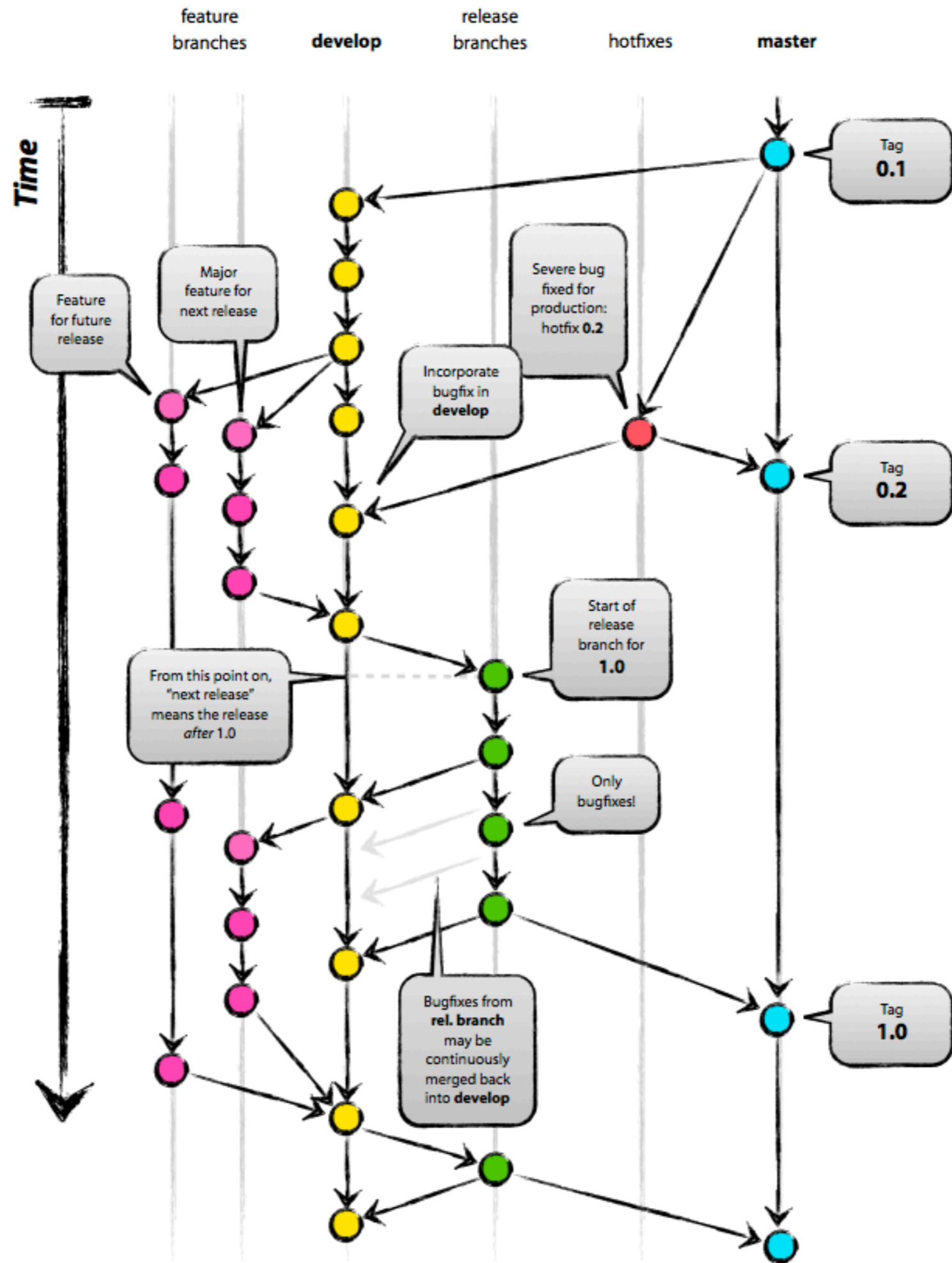
jQuery Mobile

Sencha Touch

...

version control





git

git init

git add --all

git commit

git push

...

git clone

...

git pull

...



Atlassian

bitbucket

release cycle

week	Mon	Tue	Wed	Thu	Fri
1					proposal
2	design document style guide				beta
3			code reviews		
4	release				

OOP

```
class Stock
{
    // stock's symbol
    public $symbol = NULL;

    // stock's name
    public $name = NULL;

    // stock's most recent price
    public $price = NULL;

    // time at which the stock last changed hands (measured in the number
    // of seconds since the Unix Epoch (January 1 1970 00:00:00 GMT)
    public $time = NULL;

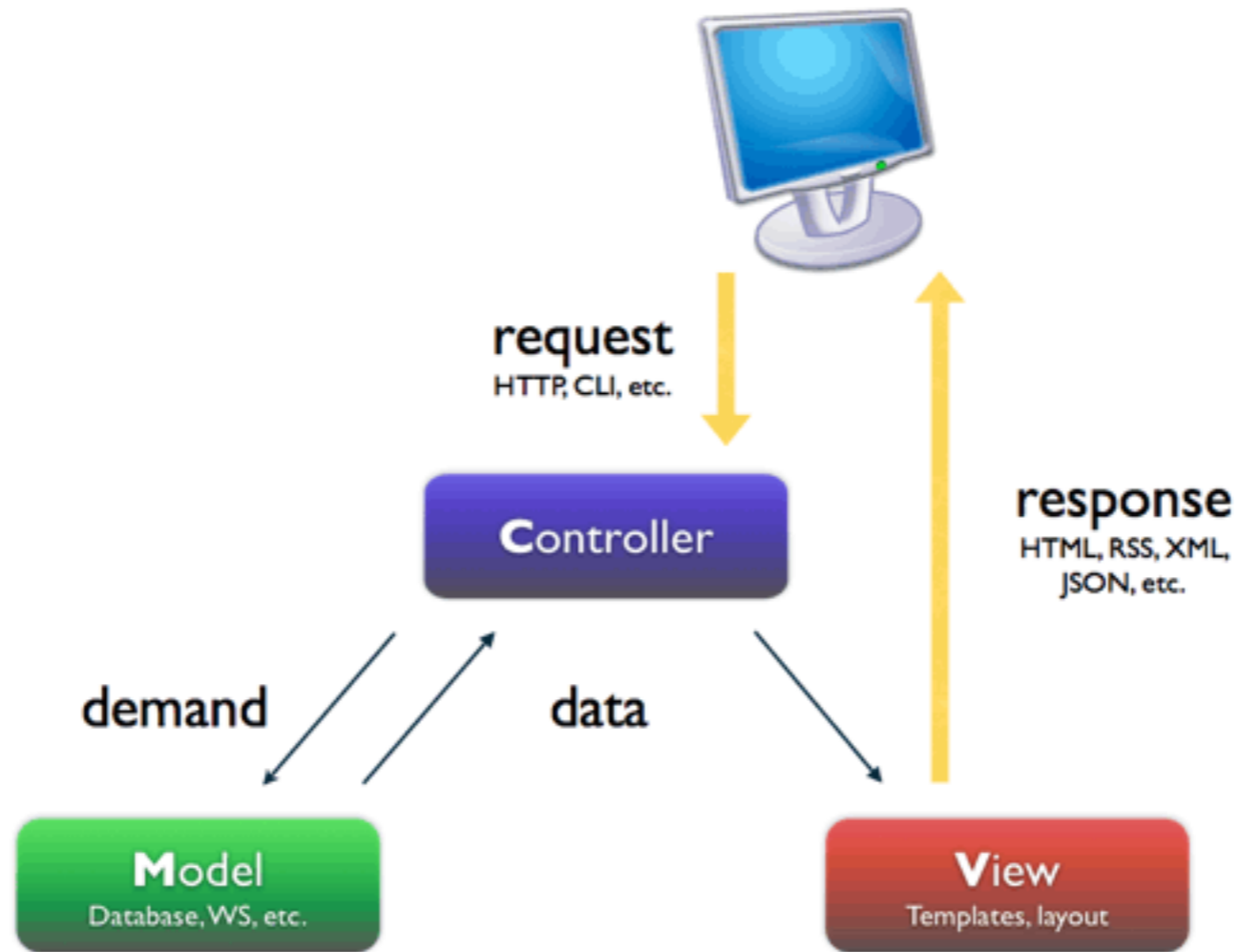
    // percent by which the stock's price changed over the course
    // of the most recent (business) day
    public $change = NULL;

    // most recent (business) day's opening price
    public $open = NULL;

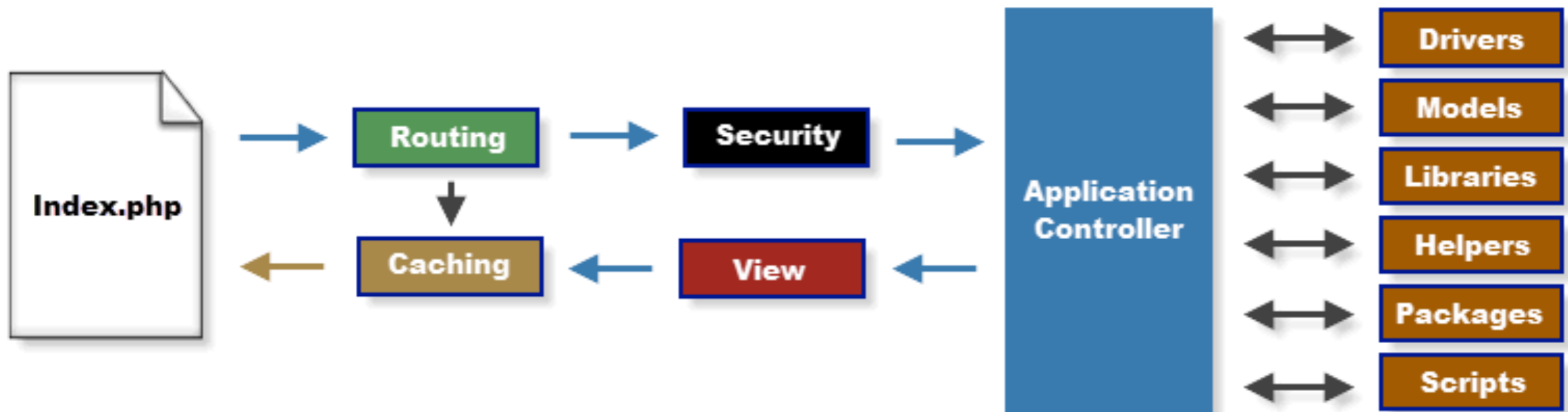
    // most recent (business) day's high
    public $high = NULL;

    // most recent (business) day's low
    public $low = NULL;
}
```


MVC



CodeIgniter



to be continued...