

UX TECHNOLOGY OVERVIEW

THINK DIFFERENT

06/05/2013

**“WE JUST
MAKE THINGS
LOOK PRETTY.”**

NOT EXACTLY.

THINK DIFFERENT

AGENDA.

1 Mock Services & Rapid Development with Node & Express.

THINK DIFFERENT

AGENDA.

2 Code Organization with Require & Angular.

THINK DIFFERENT

AGENDA.

3 Automated Unit- Testing with Jasmine & PhantomJS.

THINK DIFFERENT

AGENDA.

4 Responsive Design with Bootstrap.

THINK DIFFERENT

AGENDA.

5

**Documentation with
the YUIDoc tool.**

THINK DIFFERENT

EXPRESS & NODE

MOCK SERVICES & RAPID DEVELOPMENT

THINK **DIFFERENT**

WHAT IS **NODE.**

MOCK SERVICES & RAPID DEVELOPMENT



- Built on Chrome's V8 JS runtime environment.
- Analogous to JVM for the Java platform.
- APIs to access underlying OS and file system.
- JS executed from the command-line/server-side.

THINK DIFFERENT

WHAT IS EXPRESS.

MOCK SERVICES & RAPID DEVELOPMENT



- Built on node.
- Web application framework.

THINK **DIFFERENT**

WHAT CAN WE **DO?**

MOCK SERVICES & RAPID DEVELOPMENT

- **Setup server for rapid development.**
- **Server setup confined to single file solution.**
- **Mock API routes quickly.**

THINK DIFFERENT

DEMO

THINK DIFFERENT

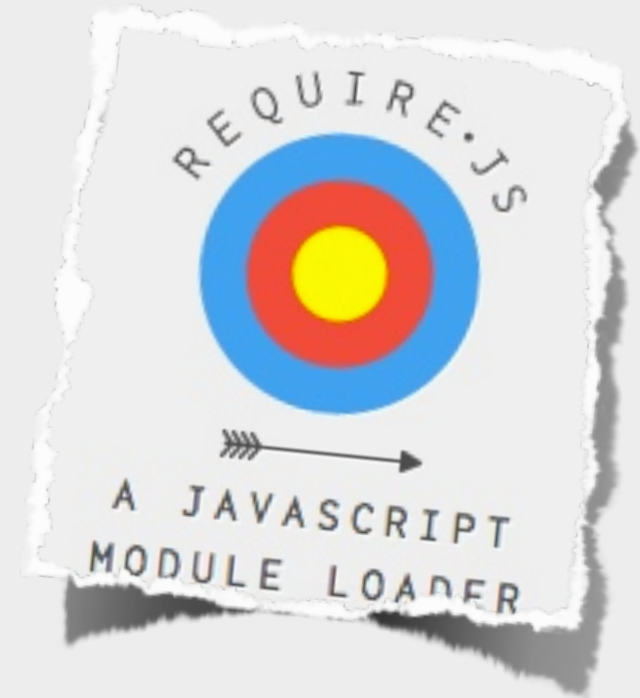
REQUIRE & ANGULAR

CODE ORGANIZATION

THINK DIFFERENT

WHAT IS REQUIRE.

CODE ORGANIZATION



- Script tags are blocking by nature.
- Require allows loading of script tags in parallel.
- Organizes code into testable modules (AMD).

THINK **DIFFERENT**

AMD **EXAMPLE.**

CODE ORGANIZATION

```
define(['dependency'] , function (dependency) {  
    return {  
        // implementation.  
    };  
});
```


THINK DIFFERENT

WHAT IS ANGULAR.

CODE ORGANIZATION



- JavaScript framework for building web applications.
- Extends HTML to be dynamic.
- Provides clean separation of code concerns:
controllers, services, directives, resources & filters.

THINK DIFFERENT

ANGULAR EXAMPLE.

CODE ORGANIZATION

Define Angular Module

```
var app = {  
    gallery: angular.module('gallery', ['dependency']);  
};
```

THINK **DIFFERENT**

ANGULAR **EXAMPLE.**

CODE ORGANIZATION

Define Angular Controller

```
app.gallery.controller('AppController', [  
    '$dependency',  
    function ($dependency) {  
        // implementation.  
    }  
]);
```

THINK DIFFERENT

DEMO

THINK DIFFERENT

JASMINE & PHANTOM

AUTOMATED UNIT-TESTING

THINK DIFFERENT

WHAT IS JASMINE.

AUTOMATED UNIT-TESTING

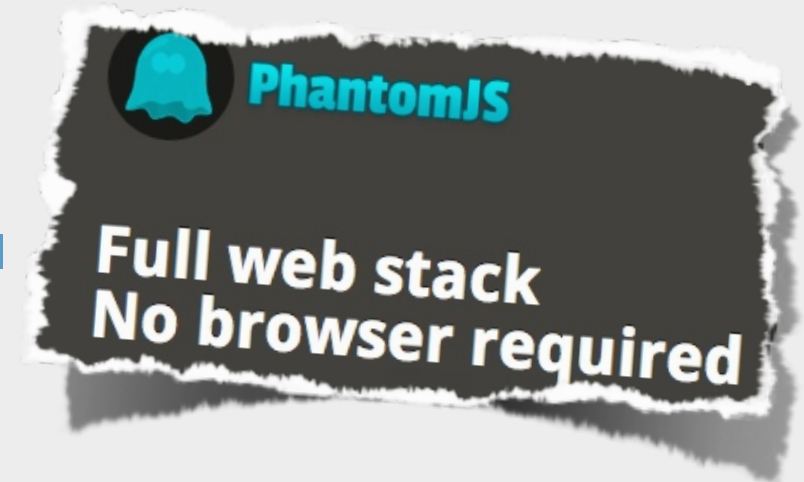


- Behavior-driven development framework for testing JavaScript code.
- Jasmine tests can be executed from a browser or within the context of phantomJS, a headless browser.

THINK DIFFERENT

WHAT IS PHANTOM.

AUTOMATED UNIT-TESTING



- Headless WebKit browser with JavaScript API.
- Provides browser constructs (DOM, JavaScript API, etc.) within the context of a terminal.

THINK DIFFERENT

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THINK **DIFFERENT**

BOOTSTRAP

RESPONSIVE DESIGN

WHAT IS RESPONSIVE DESIGN.

RESPONSIVE DESIGN

- Responsive web design is a way of making a single website that works effectively on both desktop browsers and the myriad of mobile devices on the market.

WHAT IS RESPONSIVE DESIGN.

RESPONSIVE DESIGN

- Responsive design uses “media queries” to figure out the resolution of a device. Flexible images and fluid grids then size correctly to fit the screen.
- mashable.com

THINK DIFFERENT

WHAT IS **BOOTSTRAP**.

RESPONSIVE DESIGN

- **Front-end framework that provides responsive grids, web components, JavaScript plugins, typography and form controls.**

THINK DIFFERENT

DEMO

THINK DIFFERENT

YUI

DOCUMENTATION

THINK DIFFERENT

WHAT IS YUIDOC.

DOCUMENTATION



- Built on node.
- Auto-generation of API from source comments.
- Syntax similar to Javadoc.

THINK DIFFERENT

DEMO

QUESTIONS?