



AngularJS

YAJSCAT - "Yet Another
JavaScript Client-side Application
Thingy"

The need for YAJSCAT

Web applications are getting fancier at an alarming rate!

Fancyness

$$\frac{A^2 s^4}{kg m^3}$$

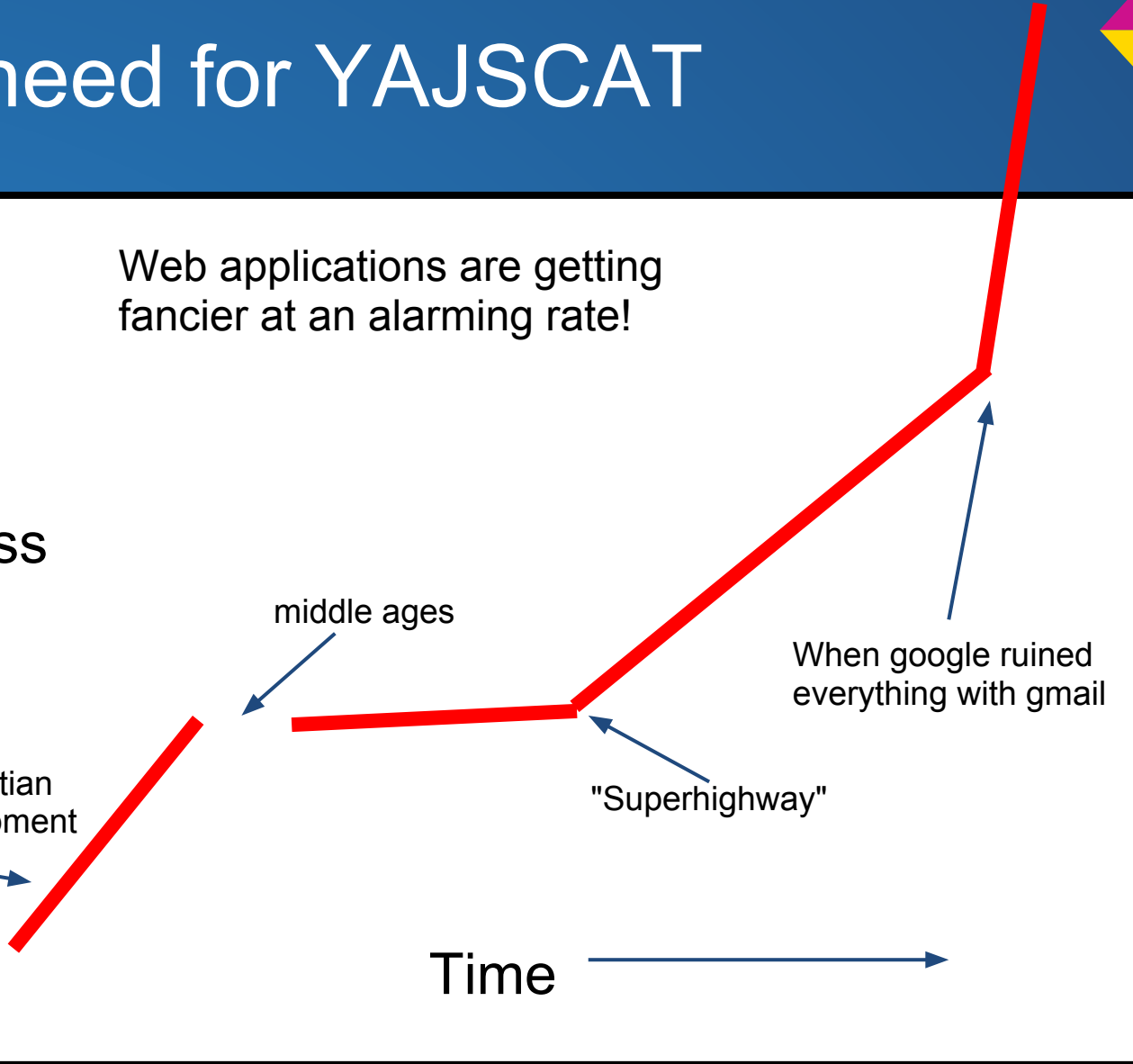
Ancient Egyptian
Web Development
Boom

middle ages

"Superhighway"

When google ruined
everything with gmail

Time



WE MUST DO SOMETHING!!!

AngularJS *is* something. Therefore, we must do AngularJS.

LOGIC: YOU ARE CONVINCED.

What's in your js directory?

- `app.js`
- `controllers.js`
- `directives.js`
- `filters.js`
- `services.js`



App

Organizes and controls imports for the other files

Directives

Are *custom html*, this lets you "teach html new tricks". Links behavior or DOM transformations into the DOM

```
<input ng-model="name">  
<span ng-bind="name"></span>
```

[elsewhere in js land]

```
function Controller($scope) {  
    $scope.name = 'default';  
}
```

Filters



Services

link up to, for example, REST services.



Testing

Includes:

- *end-to-end* (integration) testing
- unit testing

```
describe('Phone detail view', function() {  
  beforeEach(function() {  
    browser().navigateTo('app/index.html#/phones/nexus-s');  
  });  
  
  it('should display nexus-s page', function() {  
    expect(binding('phone.name')).toBe('Nexus S');  
  });  
});
```

(jasmine with a custom DSL)

Testing

Units specs include

- controllers
- directives
- filters
- services



Templates

in the DOM (cf. String-based like handlebars):

```
<html>  
  <head><title>Foo</title>  
  <body>  
    <div ng-view></div>  
  </body>  
</html>
```

Using it in rails...

```
gem 'angular-rails'
```

```
dev/biking$ rails g angular:install
  append  app/assets/javascripts/application.js
  create  app/assets/javascripts/angular/controllers
  create  app/assets/javascripts/angular/controllers/.gitkeep
  create  app/assets/javascripts/angular/filters
  create  app/assets/javascripts/angular/filters/.gitkeep
  create  app/assets/javascripts/angular/services
  create  app/assets/javascripts/angular/services/.gitkeep
  create  app/assets/javascripts/angular/widgets
  create  app/assets/javascripts/angular/widgets/.gitkeep
  create  app/assets/templates
  create  app/assets/templates/.gitkeep
  create  spec/javascripts/angular
  create  spec/javascripts/angular/.gitkeep
```

Basically

Tell angular about all of your RESTful routes