Welcome to CampNG!

Hi!

Have everyone introduce themselves
Talk about the plan for the day

Let's see some code!

Blank app, add expression
Next, add controller

Let's write some code!
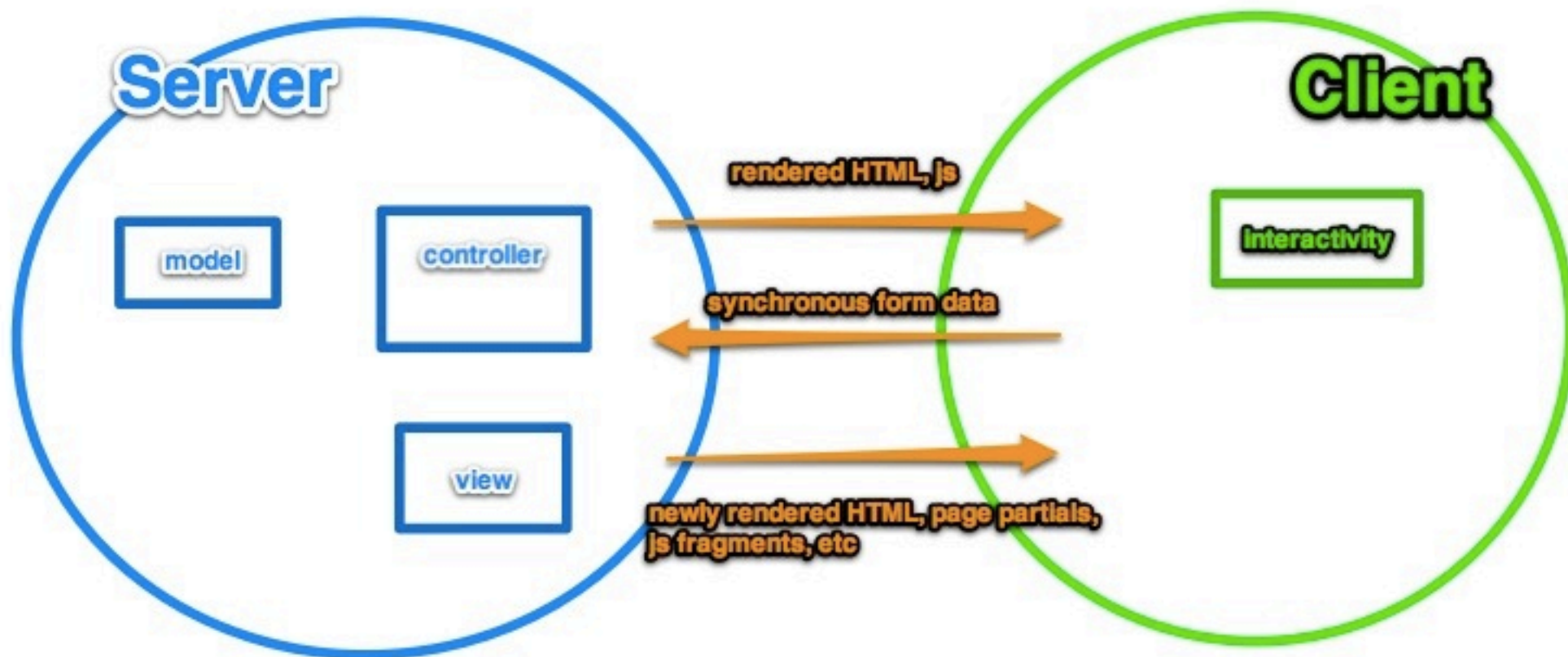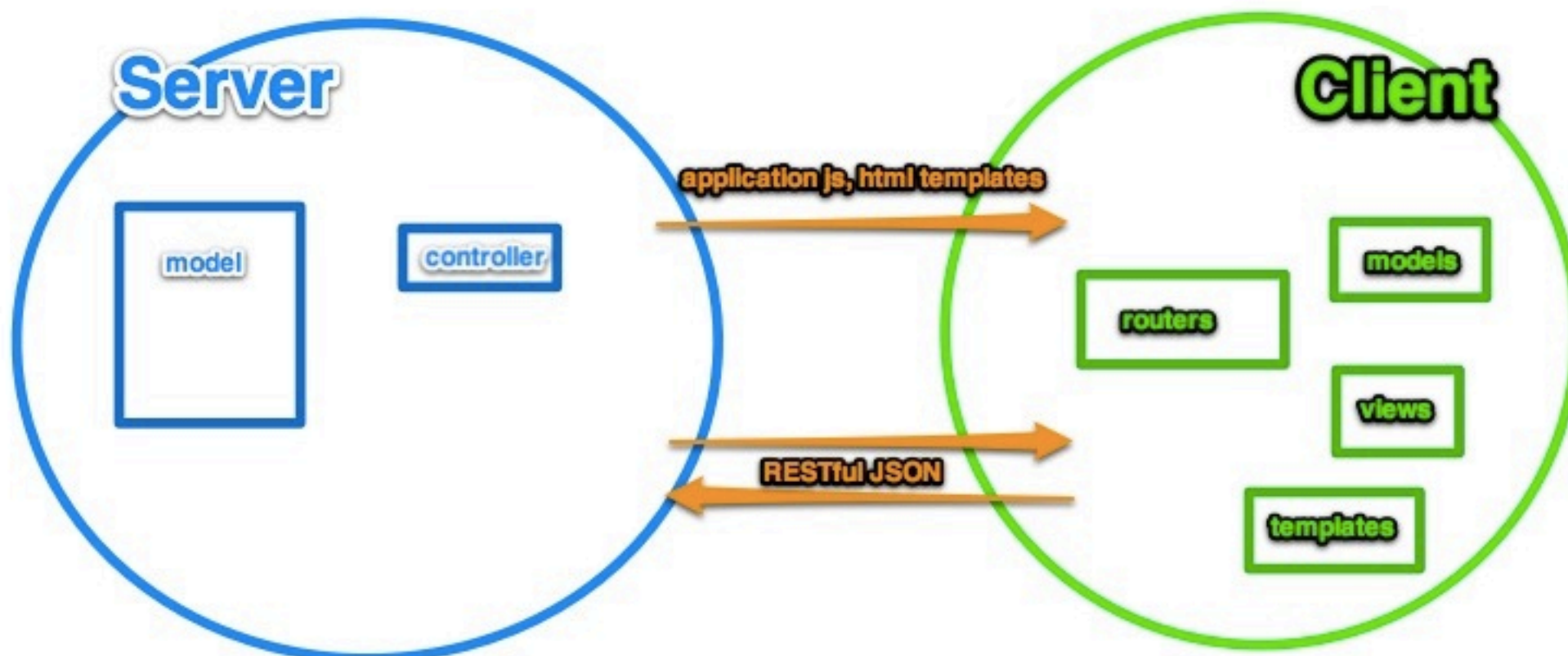
Have them greet themselves
Show them text box ng-model binding

The old

The new

Angular Zen

Simplicity

Less code, POJSO, low ceremony

Decouple all the things

DI

Binding

Testing

Angular expressions

Controllers

ng-controller

Manage $scope

Talks to services

Manipulates ~~the DOM~~

$scope

Holders of your models

Prototypically inherited

Models = POJSOs

Primitives are bad models

View

POHTML*

Directives

- Custom attributes <div thing="wut">

- Custom element

- CSS class <div class="thing">

Built-in directives

- input, textarea, select

- ngApp

- ngBindHtml

- ngBlur

- ngChange

- ngChecked

- ngClass

- ngClick

- ngCloak

- ngController

- ngDisabled

- ngShow, ngHide

- ng-model

- ng-repeat

So many!

But wait, there's more...

ngmodules.org

Modules

- An app or package

- Contain:
  - controllers
  - services
  - filters
  - directives
  - configuration

Modules

- create:
  - angular.module("mod", [deps])
- reference:
  - angular.module("mod")

Let's cook!

11:00ish
Show them the index.html page
Directory structure
app.js, controllers.js, services.js, specs

We got both kinds of testing

unit-testing with Jasmine

Friday, October 4, 13

show them spec and runner

Lab #1

End-to-end testing

scenario and runner

Lab #2

DI in angular

11:30? show examples

Routing

- ngRoute

- $routeProvider

  - Used in a config block to define routes

- $routeParams

  - Can be injected in controller to access params

- $location

  - manually trigger route change with $location.path()

More routing

- $routeProvider.when("route", options)

- $routeProvider.otherwise({redirectTo: "/route"});

- ng-view

  - placeholder for what changes

Lab #3

Show them all the pieces, route, view, template. For now, just set recipe directly on the show controller.
Lunch break

Injectables

- Factory
  - function where return value is injected
- Service
  - returns a function called with new
- value
- constant

Lab #4

Pass recipe service spec. show them underscore in the console

$routeParams

- injectable into controller

- properties for each param

Lab #5

Have it load the correct recipe using the service. Get switching recipes actually working 1:30 – 2

Forms

- Don't submit by default

- bind their values using ng-model

- form and inputs are available on scope by name

Lab #6

Failing e2e. Show them editRecipe.html. They must add route, wire it up. 20 mins

$location.path("/foos")

Lab #7

saving recipe works. Need to wire up button to controller method, inject $location service, then route
back to view. 3pm, 20 mins.

Form validation

- All inputs:
  - ng-required
  - ng-minlength
  - ng-maxlength
  - ng-pattern
- Number:
  - min, max

Moar validation

- magic properties
  - $valid
  - $invalid
  - $error
    - keys for each validation
- on form and inputs

Lab #8

Lots more markup, only a little in controller. They need to add ng-pattern to make Title require capitalization. 20 mins. 4pm?

Talking to the server

- $http
  - get(url)
  - post(url, data)
  - put(url, data)
  - delete(url)
- returns a promise
  - success(func)
  - error(func)
  - then(successFunc, errorFunc)

$resource

- For talking to RESTful resources

- $resource("path", options)

  - returns a class for the resource

  - get and query on class

  - $save, $remove, $delete on instances

Lab #9

- Hint:

  - typeahead-on-select="doSomething()"

  - this fires when you choose an ingredient!

Show the ingredients coming from server. Need to add them to recipes. 20 mins?

Filters

- Transform an expression
- Are called like "foo | bar"
  - bar is a filter which transforms foo
- Can take parameters "foo | bar:baz"
  - bar is the filter, baz is the param

Built-in filters

- date

- currency

- json

- lowercase, uppercase

- orderBy

- number

- limitTo

The filter filter

- transforms by filtering

- param is what to filter by

- strings that match or objects where any property matches

- eg stuff | filter:search

Lab #10

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Filter recipes, start with failing e2e spec. 15 mins?

Lab #11

Write a markdown filter. You'll have to use ng-bind to display it though.