

# angular-introduction

HTML enhanced for web apps - Introduction to AngularJS

## Preparation

- If there is an emphasis on Yeoman: Open a console and switch to code folder
- Print this file formatted

## Steps

1. Introduction
2. Explain that this mainly is a live coding talk
3. Slides until instructions how to create a project using yeoman
  - Show WebStorm features for angular in helloWorldAngular2.html
    - Code completion for Controller name
    - F1 over ng-app displays documentation
    - Navigate to controller from HTML
4. Optional: If there is an emphasis on Yeoman
  - Show how to run tests and server on console in dir o-base
    - grunt build test
    - grunt serve
  - Show this default application in Browser
  - Show live update
  - package.json / node / npm
  - bower.json / .bowerrc
  - Gruntfile.js
  - grunt jshint
    - show .jshinttrc
  - dist-Verzeichnis
    - Show src index.html
    - Compare index.html in app to the one in dist
5. Live-Coding #1: Standard Directives and Controllers
  1. Show result of this step first: Fully functional calculator
  2. Demonstrate calculator
  3. Show artifacts
    1. main.html -> views
      - ng-model
      - ng-submit
      - ng-disabled

2. main.js -> scripts/controllers
  3. calc.js -> scripts/services
4. module definition and routing part in complete
  - 1-resource/app/scripts/app.js
  - show relation of route to url
6. Before next live coding: Ask what people would improve upon
  1. Repetition in HTML
  2. Calculate function in global namespace
7. Live-Coding #2: Custom Directives, Services, DI, and Resources
  1. Show custom directive in step-2
    1. Use -> views/main.html
    2. Definition -> partials/control-group.html
    3. Code -> scripts/directives/controlGroup.js
  2. Show service -> scripts/services/calc.js
    1. Created by a factory
    2. Service has a callback now when it is done
    3. Services gets injected by DI into controller
      - Using parameter name same as service name
  3. Explain resource -> step-3/scripts/services/remote-calc.js
  4. Show complete application
    - switch service implementation -> 3-resource/app/index.html
    - Practical example for DI
    - DI also very practical for mocks in testing
    - Show minified version in dist folder
  5. Show WebStorm features for angular
    - make app resource root (right click, Mark as Resource root)
    - Navigate to view over routing