

## Environemental setup

- install node
- install angular cli
  - node -v
  - npm install -g @angular/cli
  - ng --version
- update angular cli
  - npm uninstall -g angular-cli
  - npm cache clean/npm cache verify (if npm > 5)
  - npm install -g @angular/cli@latest
- downgrade angular cli
  - rm -rf node\_modules
  - npm uninstall --save-dev angular-cli
  - npm install --save-dev @angular/cli@1.2.2
  - npm install

## Building Blocks Of Angular Application

- Components
- Directives
- Services
- Routes
- Modules
- Pipes
- Guards

## Understanding Angular Cli Sommands

- ng new appname
  - flags (same flags may be available in other commands too)
    - --dry-run
    - --inline-style
    - --inline-template
    - --routing
    - --prefix
    - --style
    - --skip-tests
- ng serve
  - flags

- --port
  - --host
  - --ssl
  - --ssl-key
  - --ssl-cert
  - --open
- ng lint
  - flags
    - --fix
- ng test
- ng build
  - flags
    - --prod
    - --build-optimizer
    - --aot
    - --target
- ng g cl class-name
- ng g c component-name
  - flags
    - --spec
    - --view-encapsulation
    - --flat
    - --selector
- ng g d directive-name
- ng g e enum-name
- ng g m module-name
- ng g p pipe-name
- ng g s service-name

### Understanding Basic Debugging

- Console.log(), console.debug(), console.warn(), console.info(), console.error()
- console.table();
- console.time();console.timeEnd();
- console.trace();
- debug(fn);
- debugger;

- `console.log('%c ' + question, 'background: #222; color: #bada55');`
- `monitor(fn);`

## Understanding File Structure

- Angular Cli and Webpack
- `package.json`
  - `~`(supports patch release)
  - `^`(supports minor release)
  - refer semver for more versioning details
- `Angular.json` / `Angular-cli.json`(version <=5)
- `main.ts`
- `Appmodule.ts`
- Dependency Injection

## HTML Best Practices

- `Reset.css`
- Getting Most Out of Html5
  - `<article>`
  - `<aside>`
  - `<details>`
  - `<figcaption>`
  - `<figure>`
  - `<footer>`
  - `<header>`
  - `<main>`
  - `<nav>`
  - `<section>`
  - `<summary>`

## Components

- Decorators
- Constructor
- Template
- Styles
- Template Expression `{{}}`

## Structural Directives

- \*ngFor
- \*ngIf
- \*ngSwitch

### Conditional Styling

- [style.stylename] ----->apply single style on condition
- [ngStyle] ----->apply multiple styles on condition
- [ngClass] ----->apply multiple class on condition
- [class.classname] ----->apply single class on condition

### Component Interaction

- Input
- Output (event emitter)
- Template reference (or) local variables (#refence)

### Deployment

- Production Build
- Deploying in Server
- live-server
- now