

Architecture



Architecture

Define architecture



Software architecture



Software architecture

What is it?



Software architecture

What is it?

Describe the architecture of a web application?

Your thoughts on this?



Your thoughts on this?

Every developer strives to write maintainable,
readable, and reusable code.



Or is it rather?



Or is it rather?

Every developer strives to write code.



My challenge to you

`...strive to write maintainable, readable, and
reusable code.`



Response?



How do I do that?

How do I structure my code well?



How do I do that?



How do I do that?

Object orientation



How do I do that?

Object orientation

Functional programming



How do I do that?

Object orientation

Functional programming

Design patterns



How do I do that?

Object orientation

Functional programming

Design patterns

DRY!! - Don't Repeat Yourself



A light



Object Orientation



Object Orientation

Model real things



Object Orientation

Model real things

Reusable objects



Object Orientation

Model real things

Reusable objects

Combining data + behaviour

Object Orientation concepts



Object Orientation concepts

Classes - blueprints/ templates

Object Orientation concepts

Classes - blueprints/ templates

Constructor

Object Orientation concepts

Classes - blueprints/ templates

Constructor

Encapsulation



Object Orientation concepts

Classes - blueprints/ templates

Constructor

Encapsulation

Scope - private variables & hide information

Object Orientation concepts

Classes - blueprints/ templates

Constructor

Encapsulation

Scope - private variables & hide information

Inheritance

Object Orientation

concepts

Classes - blueprints/ templates

Constructor

Encapsulation

Scope - private variables & hide information

Inheritance

Composition

Functional programming



Functional programming

Is about functions (?!)



Functional programming

Is about functions (?!)

Higher order functions

Functional programming

Is about functions (?!)

Higher order functions

Composing functions



Design patterns

Design patterns are reusable solutions to commonly occurring problems in software design.



Practice

- Ferry Kata
- Itemised bill



Resources



Treehouse



Funfunfunction!



One thing...



One thing...

That became clear today!



