

What is "Clean Code"?



It's not about whether code works



Wasting time reading messy code

A vast majority of time is spent reading and understanding code.



What Is Clean Code?



Should be readable and meaningful



Should reduce cognitive load

easy to understand



Should be **concise** and "to the point"



Should avoid unintuitive names, complex nesting and big code blocks



Should follow **common best practices** and
patterns



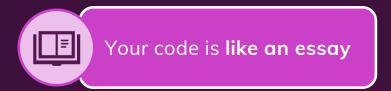
Should be **fun** to **write** and **to maintain**



Clean Code Is Easy To Understand – Dirty Code Is Not



Write A Good Story!



You are the **author**



Write it such that it's fun and easy to read and understand!



Module Content

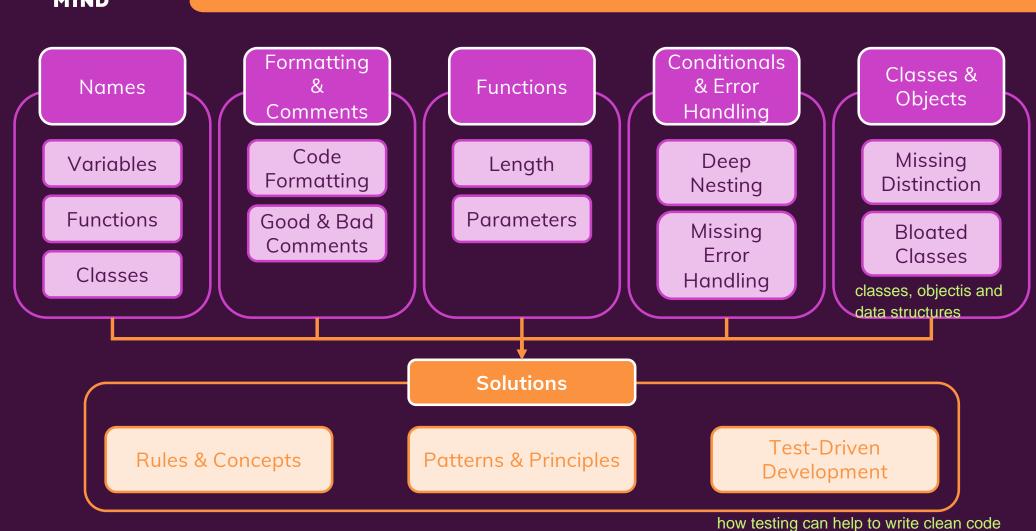
Course Content, Structure & Prerequisites

Clean Code vs Patterns & Principles

How To Write Clean Code

ACADE MIND

Key Pain Points





Course Sections Content



Problems, Rules & Concepts



Demos & Examples



Challenge Time!

Learn about bad code and why it's bad

Understand the core rules and concepts you should follow

See bad and code code in action

Bad to good code transformations & examples Analyze and transform code on your own

Apply what you learned



Course Prerequisites

Programming experience is required

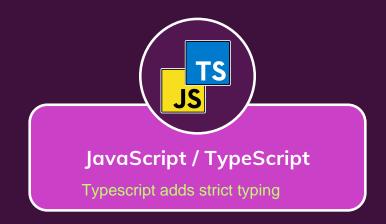


You don't need to be a senior (not at all)



Programming Languages Used In This Course





You don't need to know or focus on these languages

The concepts taught and examples shown apply to ALL programming languages



Core Syntax

Variables & Constants

Functions

Classes & Interfaces



Clean Code Doesn't Require Strict Typing

```
function add(num1: number, num2: number) {
  return num1 + num2;
}
```

Types can help preventing errors and can improve readability

But code can also be 100% readable and meaningful without types

```
def add(num1, num2):
    return num1 + num2
```



About The Code Examples Shown In This Course



Short, Focused Examples



Code snippets: Most examples won't execute



Examples don't use a particular programming style / paradigm



Functional vs OOP vs Procedural

This course doesn't focus on a specific paradigm

Paradigm-specific rules, conventions, patterns and guides should also be considered

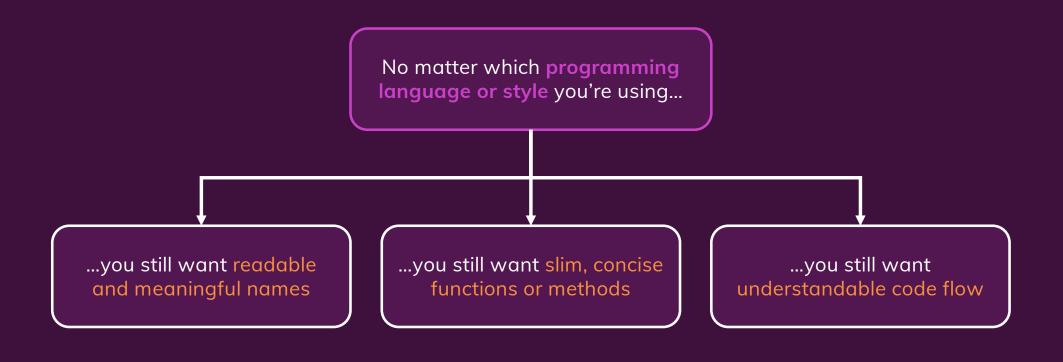


The rules, concepts, ideas and patterns shown in this course apply in general!



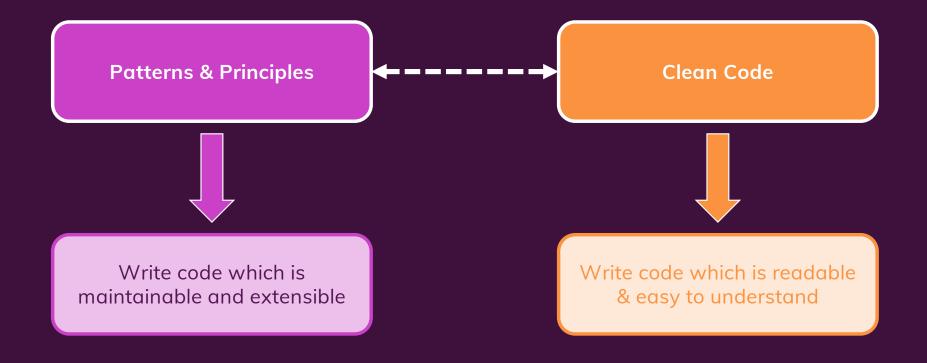


The Core Principles & Rules Always Apply!



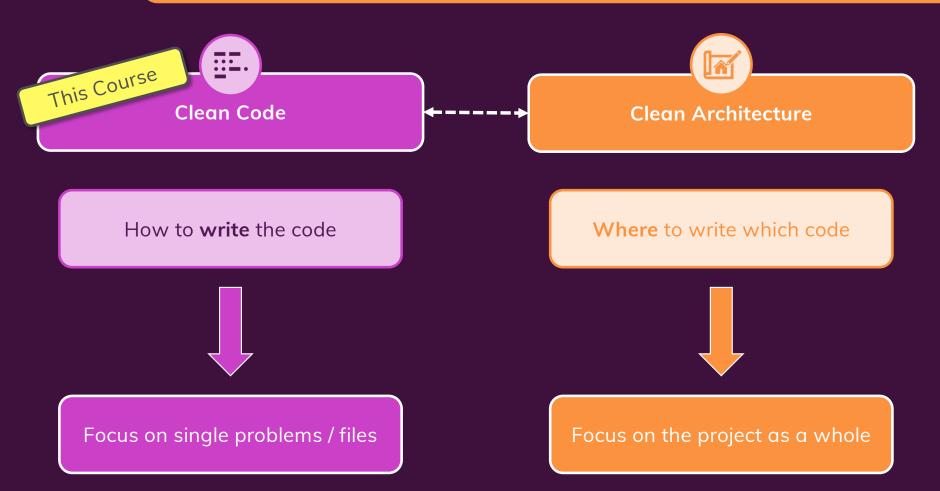


Clean Code and Patterns & Principles



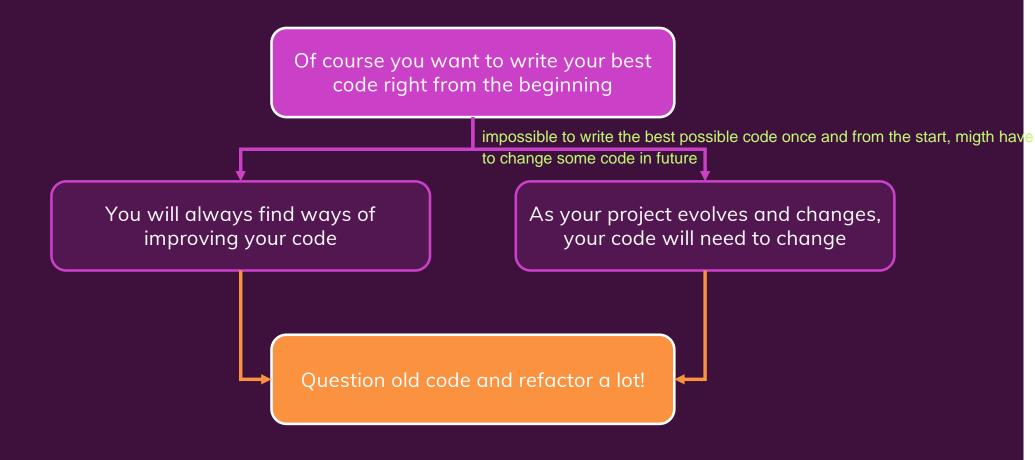


Clean Code vs Clean Architecture



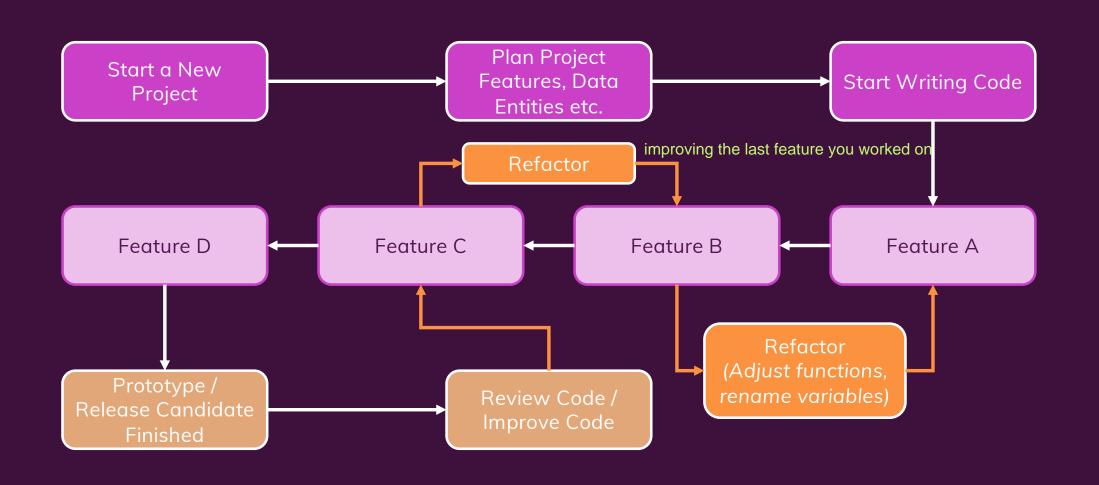


Clean Code Is Written Over Time!





How To Write Clean Code





Embrace Refactoring!



Refactoring today is work you save tomorrow

better code!



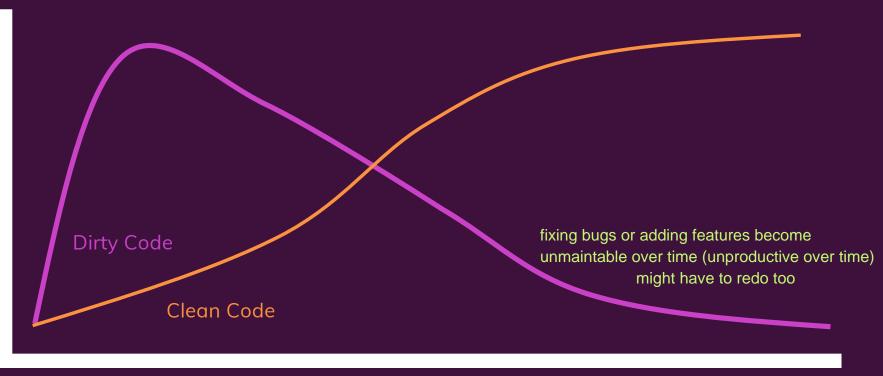
A codebase can only survive and stay maintainable if it's continuously improved and refactored



Pro tip: Whenever you add something new, try to improve existing code along the way

Clean Code vs Quick Code





Time