# Agenda

Course fundamentals Most important skill as a developer Configuring your box The shell Package managers .NET Standard Entity Framework Core DTOs

#### Course fundamentals

Not designed to be easy!

Designed to teach you to teach yourself

You learn from experience and pain!

You must type it yourself! You must fail to succeed!

We can't teach you everything!
We are not going to hold your hand!

### Most important skill as a developer

Programmers **spend** 50.1% of their work **time** not programming. Half of their **time spent** programming is **spent debugging**. ... 26% reduction in **time spent debugging** is estimated to equal \$81.1bn in total software development costs saved per year.

- Tom Britton et.al.: Reversible Debugging Software

"Indeed, the ratio of time spent reading versus writing is well over 10 to 1. We are constantly reading old code as part of the effort to write new code. ...[Therefore,] making it easy to read makes it easier to write."

— Robert C. Martin, Clean Code: A Handbook of Agile Software Craftsmanship

### Most important skill as a developer

Most important skill:

Reading English!

Second most important skill:

Writing English!

Third most important skill:

**Internet Search!** 

Fourth most important skill:

Ask for help!

# Configuring your box

All the exercises are for a reason!

- You might not get it now, that's ok(!)

Configuring your pc/mac is a chore/challenge/delight(!) you do it!

You will want/need to reinstall from scratch maybe once a year

# The shell/console/terminal

bash

Terminal (bash → zsh)

PowerShell 6+

Windows PowerShell

Command Prompt









# Package Managers

Linux: apt/yum/rpm

Windows: Chocolatey: <a href="https://chocolatey.org/">https://chocolatey.org/</a>

Mac: Homebrew: https://brew.sh/

All: npm: https://www.npmjs.com/

.NET: NuGet: https://www.nuget.org/

They all work the same:

The Shell!

#### .NET Standard

https://docs.microsoft.com/enus/dotnet/standard/net-standard

#### Entity Framework Core and DTOs

Project.App ← console

Project.App.Tests ← xunit

Project.Model ← classlib

Project.Model.Tests ← xunit

Project.Entities ← classlib

Project.Entities.Tests ← xunit

Connection (Sqlite):
 "Data Source=database.db"