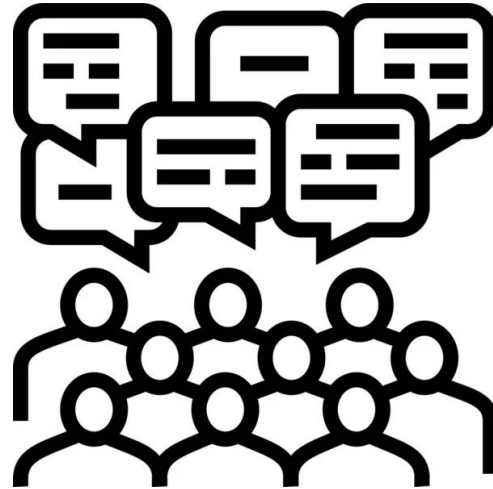# C#

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History/Origins

- Microsoft
- Anders Hejlsberg
  - Lead language designer
- Designed for Microsoft's .Net framework
- COOL
  - C-like Object Oriented Language
- Official release in 2000
- Family of C Language
  - C++++ → C#
  - C sharp note in music
- Most recent release in 2024

C# – What is it?

- Microsoft technologies #1 language
  - Most popular language for the .Net
  - SQL Server, Azure, Visual Studio Code
- Practical and purposeful
  - *"Whenever someone goes, why is this feature there? It's not just because I thought it was fun, it's because it solves this, this and this problem."*
    – Anders Hejlsberg
- Thoroughly documented
  - C# Docs
- Active community
  - of learners and experienced developers alike

Applications/Uses of C#

- Databases
  - ADO.NET and Visual C# .NET primarily
    - Used for Microsoft SQL Servers
- Applications
  - Mobile, desktop, and web
  - Best suited for Microsoft applications, but highly versatile
- C# Web Services
  - Similar script design as ASP.NET
  - Needs UCL for cross-platform use (XML)
- Game Development
  - Highly compatible and efficient
  - Used for A/V and AI components

Would we use C#, and why?

- Heavily dependent on project type and destination
  - More efficient for .NET projects
- High prevalence with game development
  - Backbone for game engines, cross-platform uses

- Database Developer job descriptions
- Top language of software I've used before
  - SQL Server, SQL Azure Database, MSBI stack
- Deeper understanding of interacting with databases beyond SQL queries
  - Create a web API that uses a database

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Questions?