

# Visual Studio Code

# What is Visual Studio Code?

- The most popular IDE in the world - *Stack Overflow Survey*
- A free, lightweight code editor
- "Built on open source" - *Microsoft*
- **Not** Visual Studio
- Not specific to any programming language → Extensions!

# Extensions

- Provide all sorts of functionality:
  - Syntax Highlighting
  - Intellisense
  - Debugging
  - Color Themes
  - Previews/Compilation
- Written in Javascript and published on the vscode marketplace

# Pros and Cons

## Pros

- Free (and mostly open source)
- Flexible
- Easy to extend and customize

## Cons

- Difficult to set up
- Not optimized for any particular language

# Practical Example

Create an Assignment sheet (+separate solution sheet) about the latest version of the R package `graphicalExtremes` . In particular, use the functions `rmpareto` , `generate_random_model` , and `fmpareto_graph_HR` .

- To-do list:
  - Install `graphicalExtremes`
  - Understand the specified functions
  - Create an example in R
  - Write a matching assignment sheet in LaTeX
  - Compile the assignment and the solution

# Git Integration

- Native support
- Complex stuff:
  - Gitlens
  - Git History
- Simplify stuff:
  - Git Easy
  - Git Automator

## More Useful stuff:

- Tasks
- Remote development
- Github
  - Open repos directly in vscode
  - Open online vscode on Github
- Latex algebra computer
- R Debugger

## Some Weird stuff:

- Cats
- Spotify
- Liveshare
- Remote Development



**Thank you!**