

# MGMT 638

## Session 1

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- PDF: *Quality Minus Junk*, Asness, Frazzini, and Pedersen, 2019
- Video: *Quality Minus Junk*, Asness, Frazzini, and Pedersen, 2019

- Factor Investing at BlackRock
- Video: Factor Investing
- Systematic Equities at AQR
- Returns from Sorts on Factors



BY ANTHROPIC

# Claude Code

Part of a new generation of terminal-based coding agents, along with OpenAI Codex and Gemini CLI.

It integrates well with popular development environments like VS Code.

Using standard Anthropic models, it is optimized for development tasks.

*Requires Claude Pro subscription*



## Varieties of Claude



### **Claude.ai**

Interact with Claude directly through its intuitive web interface for general tasks and conversations.



### **Claude Desktop**

Access Claude as a dedicated desktop application for enhanced productivity and offline capabilities.



### **Claude Code in Terminal**

Integrate Claude's coding capabilities into your command-line workflow for quick code generation and debugging.



### **Claude Code in VS Code**

Leverage Claude's advanced code assistance directly within your VS Code development environment.

# Claude Code's Capabilities



## File Operations

Create, edit, copy, move, and delete files



## Document Creation

Generate and edit **LaTeX** documents.  
Generate **Word** docs, **PowerPoint** presentations, and **Excel** workbooks



## Python Development

Write, edit, and execute **Python scripts** and **Jupyter notebooks**



## Deployment

Create **GitHub** repositories and **deploy apps** on hosting platforms



## 1. Sign up for Claude Pro:

1. Visit [claude.ai](https://claude.ai)
2. Click “Sign Up” or “Get Started”
3. Create account using email or Google/Apple sign-in
4. After signing in, click “Upgrade to Pro” in the sidebar
5. Choose the monthly payment plan
6. Complete payment information

## 2. [YouTube Video](#)



# Mac - Install Claude Code

## Step 1: Install Node.js

- Using Homebrew: `brew install node`
- Or download installer from [nodejs.org](https://nodejs.org)

## Step 2: Install Claude Code

- Run: `npm install -g @anthropic-ai/claude-code`

## Step 4: Verify Installation

- Run: `claude doctor`

## Step 1: Install Node.js

- Download and install from [nodejs.org](https://nodejs.org)
- Choose the LTS (Long Term Support) version

## Step 2: Install Git for Windows

- Download from [git-scm.com/download/win](https://git-scm.com/download/win)
- During installation, select "Git Bash" (default option)
- This provides the bash shell that Claude Code needs

### Step 3: Uninstall Claude Code (if you installed Claude Code before)

- Open PowerShell
- Run: `npm uninstall -g @anthropic-ai/claude-code`

### Step 4: Install Claude Code

- In PowerShell, run: `npm install -g @anthropic-ai/claude-code`

### Step 5: Verify Installation

- In PowerShell, run: `claude doctor`

## Mac and Windows - Install Python

- Tell Claude Code: “Install Python 3.13 and add it to the path.”
- Claude will detect your OS and install Python appropriately
- Tell Claude Code: “Upgrade pip”

# Mac and Windows - Install VS Code and Extensions

## Step 1: Install VS Code

- Tell Claude Code: "Install VS Code"
- Or download from [code.visualstudio.com](https://code.visualstudio.com)

## Step 2: Install VS Code Extensions

Tell Claude Code to install these VS Code extensions:

- Python
- Jupyter
- Claude Code

# Create and Open Course Folder

## Step 1: Create a Course Folder

- Create a folder (e.g., mgmt638 in Documents)

## Step 2: Open VS Code

- Launch VS Code

## Step 3: Open Your Course Folder

- In VS Code: File → Open Folder
- Navigate to your course folder and select it
- Click "Select Folder" (or "Open" on Mac)

## Launch Claude Code

- If you see the orange Claude icon in the top toolbar, click it.
- If not, create a new file (File → New Text File) and you should see it.
- Or CTRL-SHIFT-P and 'Claude Code Open in New Tab'

# Create Virtual Environment

## Tell Claude Code:

- “Create a virtual environment using Python 3.13 in my current directory.”
- This keeps course packages isolated from other Python projects

## Tell Claude Code to ‘pip install’ the following packages in the virtual environment:

- `numpy pandas scipy statsmodels scikit-learn`
- `openpyxl matplotlib seaborn ipykernel`
- `pandas-datareader streamlit requests python-dotenv`



Tell Claude Code to write and run a python script that sums the first 1,000 integers and prints the total so the user can view the total.

You should see that the total is 500500.