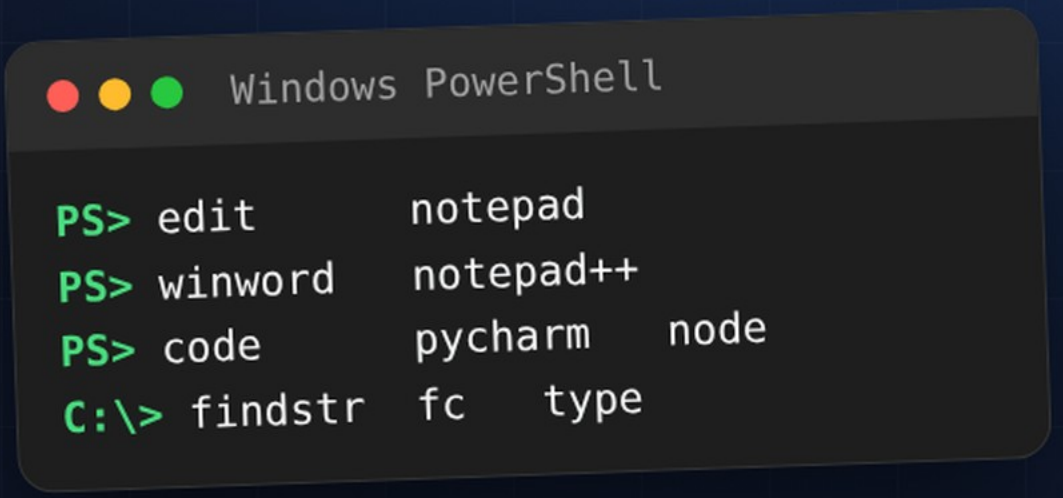
FULL COURSE

WINDOWS EDITORS & UTILITIES

WINDOWS EDITORS

Full Course · 6 Lessons



FULL COURSE

Windows Editors & Utilities

1. edit & Notepad
2. WordPad & Microsoft Word
3. Notepad++
4. VS Code on Windows
5. PyCharm & Node.js on Windows
6. Windows Text Utilities

LESSON 1

edit & Notepad: Windows Built-In Text Editors

`edit · notepad`

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PART 1 OF 5

edit: Back in Windows 11

1. New Microsoft Edit, open source
2. Included in Windows 11, version 25H2
3. Older builds: winget install Microsoft.Edit

Windows PowerShell

```
PS> winget install Microsoft.Edit
PS> edit notes.txt
C:\> edit C:\scripts\backup.ps1
```

PART 2 OF 5

Using edit

1. Menus and mouse support
2. Ctrl+S save · Ctrl+Q exit
3. Ctrl+F find & replace · Ctrl+P files

Windows Terminal

```
File  Edit  View  Help
---------------------------------
Ctrl+N  New      Ctrl+O  Open
Ctrl+S  Save     Ctrl+Q  Exit
Ctrl+F  Find     Ctrl+P  Switch file
Alt+Z   Word wrap
```

PART 3 OF 5

Notepad: Plain Text

1. Plain text: .txt .bat .ps1 .ini
2. From any terminal: notepad file
3. Tabs, dark mode, session restore

Windows PowerShell

```
PS> notepad hosts.txt
PS> notepad $PROFILE
C:\> notepad %USERPROFILE%\todo.txt
```

PART 4 OF 5

Notepad Tips

1. F5: insert date and time
2. Ctrl+H find & replace · Ctrl+G go to line
3. Watch the encoding: UTF-8

Windows Terminal

```
F5              insert date and time
Ctrl+H          find and replace
Ctrl+G          go to line
Status bar:     UTF-8 | Windows (CRLF)
```

PART 5 OF 5

Edit a System File Safely

1. Open Terminal as administrator
2. Back up the file first
3. Edit with notepad or edit

Windows PowerShell

```
# Terminal (Admin)
PS> cd C:\Windows\System32\drivers\etc
PS> copy hosts hosts.bak
PS> edit hosts
    127.0.0.1   myapp.local
```

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LESSON 2

WordPad & Microsoft Word: Rich Text vs Plain Text

WordPad · Word

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PART 1 OF 5

Plain Text vs Rich Text

1. Plain text: characters only
2. Rich text: fonts, colors, images
3. Never write code in a word processor

Windows PowerShell

```
# hello.py was typed in a word processor:
PS> python hello.py
    print(“Hello”)
          ^
SyntaxError: invalid character '“' (U+201C)
```

PART 2 OF 5

WordPad: Retired

1. Opened .rtf and .docx files
2. Removed in Windows 11 24H2
3. Now: Notepad or Word

Windows PowerShell

```
PS> wordpad
wordpad: The term 'wordpad' is not
recognized as a name of a cmdlet...
PS> notepad notes.txt     # plain text
PS> winword report.docx   # rich text
```

PART 3 OF 5

Microsoft Word

1. Styles & headings build a TOC
2. Track changes & comments
3. Word for the web: free in a browser

```
Windows PowerShell

PS> winword report.docx

Home > Styles > Heading 1
References > Table of Contents
Review > Track Changes
File > Export > Create PDF
```

PART 4 OF 5

Word Shortcuts

1. Ctrl+B bold · Ctrl+I italic · Ctrl+U
2. Ctrl+Z undo · Ctrl+Y redo
3. Ctrl+S save · F12 Save As

Windows Terminal

Ctrl+B	Bold	Ctrl+Z	Undo
Ctrl+I	Italic	Ctrl+Y	Redo
Ctrl+U	Underline	Ctrl+S	Save
Ctrl+F	Find	F12	Save As

PART 5 OF 5

Right Tool for the File

1. Scripts & data: Notepad or a code editor
2. Reports, letters, resumes: Word
3. Share as PDF

Windows Terminal

```
backup.ps1    ->  Notepad / edit
config.json   ->  VS Code
resume.docx   ->  Word
resume.pdf    ->  share this one
```

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LESSON 3

Notepad++: The Free Power Editor for Windows

Notepad++

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PART 1 OF 5

What Is Notepad++?

1. Free & open source (GPL)
2. Small and very fast
3. winget install Notepad++.Notepad++

Windows PowerShell

```
PS> winget install Notepad++.Notepad++
PS> & 'C:\Program Files\Notepad++\notepad++.exe' `
      app.log
```

PART 2 OF 5

Built for Code

1. Syntax colors for 80+ languages
2. Tabs for many open files
3. Line numbers & code folding

Notepad++

```
Language > P > Python
View > Show Symbol > Show All Characters
View > Fold All          Alt+0
View > Unfold All        Alt+Shift+0
```

PART 3 OF 5

Search Across Files

1. Ctrl+F find · Ctrl+H replace
2. Ctrl+Shift+F: find in files
3. Regular expressions supported

Notepad++

```
Find in Files            Ctrl+Shift+F
  Find what : ERROR.*timeout
  Filters   : *.log
  Directory : C:\logs
  Search Mode: (x) Regular expression
```

PART 4 OF 5

Power Features

1. Alt + drag: column editing
2. Record & replay macros
3. Plugins Admin: Compare, JSON

Notepad++

```
Alt + mouse drag    column select
Macro > Start Recording
Macro > Run a Macro Multiple Times
Plugins > Plugins Admin
  [x] Compare   [x] JSON Viewer
```

PART 5 OF 5

Line Endings Matter

1. Windows CRLF vs Linux LF
2. Wrong endings break bash scripts
3. Edit > EOL Conversion > Unix (LF)

Notepad++

```
$ ./backup.sh
-bash: ./backup.sh: /bin/bash^M:
  bad interpreter: No such file or directory

# fix in Notepad++:
Edit > EOL Conversion > Unix (LF)
```

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LESSON 4

VS Code on Windows: From the code Command to Debugging

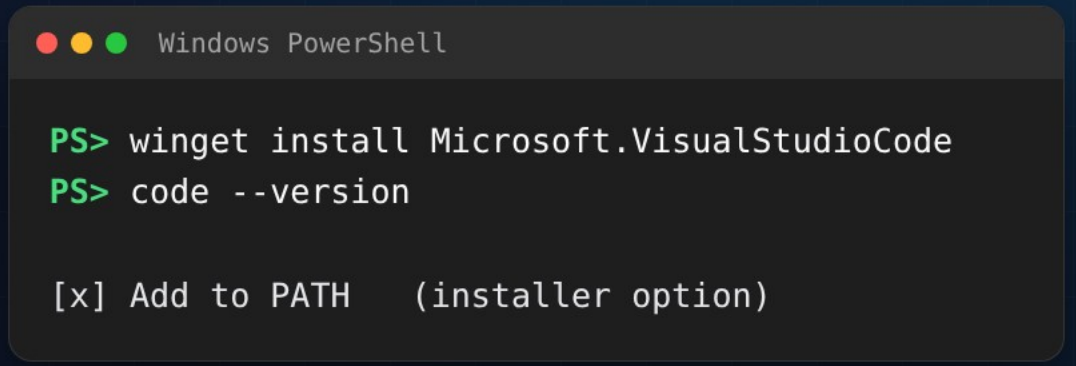
```
code .
```

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PART 1 OF 5

Install VS Code

1. winget install Microsoft.VisualStudioCode
2. Keep 'Add to PATH' checked
3. Free, updated every month



PART 2 OF 5

The code Command

1. code . : open this folder
2. code app.py: open one file
3. code -d a b: compare two files

Windows PowerShell

```
PS> cd C:\projects\webapp
PS> code .
PS> code app.py
PS> code -d old.json new.json
```

PART 3 OF 5

Extensions

1. Python, PowerShell, Docker, Remote
2. Ctrl+Shift+X: Extensions view
3. Or: code --install-extension

Windows PowerShell

```
PS> code --install-extension ms-python.python
PS> code --install-extension ms-vscode.powershell
PS> code --list-extensions
```

PART 4 OF 5

Terminal, Git and Debugger

1. Ctrl+`: integrated terminal
2. Ctrl+Shift+G: commit & push with Git
3. F9 breakpoint · F5 debug

Visual Studio Code

```
Ctrl+`          integrated terminal
Ctrl+Shift+G    Source Control (Git)
F5              run and debug
F9              toggle breakpoint
```

PART 5 OF 5

Shortcuts Worth Learning

1. Ctrl+Shift+P: Command Palette
2. Ctrl+P: quick open a file
3. Alt+Up/Down · Ctrl+/ · Ctrl+D

Visual Studio Code

Ctrl+Shift+P	Command Palette
Ctrl+P	quick open a file
Alt+Up/Down	move a line
Ctrl+/	comment a line
Ctrl+D	select next match

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LESSON 5

PyCharm & Node.js on Windows: Python and JavaScript Setup

PyCharm · Node

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PART 1 OF 5

Install Python First

1. winget install Python.Python.3.14
2. python --version to check
3. py launcher picks the version

Windows PowerShell

```
PS> winget install Python.Python.3.14
PS> python --version
PS> py -0          # list installed versions
```

PART 2 OF 5

Install PyCharm

1. Download: jetbrains.com/pycharm
2. One product: core features free
3. New Project creates a venv

Windows Terminal

```
https://www.jetbrains.com/pycharm/

File > New Project
  Location    : C:\projects\analysis
  Interpreter : Project venv (Python 3.14)
```

PART 3 OF 5

PyCharm Superpowers

1. A venv per project
2. Breakpoints & step-through debugging
3. Jupyter notebooks built in

Windows Terminal

```
# analysis.py
import pandas as pd

df = pd.read_csv('sales.csv')
print(df.describe())    # ● breakpoint
```

PART 4 OF 5

Install Node.js

1. winget install OpenJS.NodeJS.LTS
2. Choose LTS: long-term support
3. node -v and npm -v to check

Windows PowerShell

```
PS> winget install OpenJS.NodeJS.LTS
PS> node -v
PS> npm -v
```

PART 5 OF 5

Run JavaScript with Node

1. node: interactive prompt
2. node app.js: run a file
3. npm init -y · npm install express

Windows PowerShell

```
PS> node
> 'hello'.toUpperCase()
'HELLO'
> .exit
PS> node app.js
PS> npm init -y
PS> npm install express
```

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LESSON 6

Windows Text Utilities: type, findstr, fc & PowerShell

`findstr · fc`

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PART 1 OF 5

type and more

1. type file: like cat
2. more: one screen at a time
3. type a b > all: join files

Command Prompt

```
C:\> type notes.txt
C:\> type big.log | more
C:\> type a.txt b.txt > all.txt
```

PART 2 OF 5

findstr: The Windows grep

1. findstr "error" app.log
2. /i ignore case · /n line numbers
3. /s search all subfolders

Command Prompt

```
C:\> findstr /i /n "error" app.log
12:ERROR disk full
48:Error: timeout
C:\> findstr /s /i "password" *.config
```

PART 3 OF 5

fc: Compare Files

1. fc old.txt new.txt
2. /n show line numbers
3. /b compare binary files

Command Prompt

```
C:\> fc /n old.conf new.conf
Comparing files old.conf and NEW.CONF
***** old.conf
    2:  port=8080
***** NEW.CONF
    2:  port=9090
*****
```

PART 4 OF 5

PowerShell: Get-Content

1. Get-Content (alias: cat, gc)
2. -Tail 20 -Wait: like tail -f
3. Set-Content & Add-Content write files

Windows PowerShell

```
PS> Get-Content app.log -Tail 20 -Wait
PS> "port=9090" | Set-Content app.conf
PS> Add-Content todo.txt "learn PowerShell"
```

PART 5 OF 5

Select-String & Compare-Object

1. Select-String: like grep, with regex
2. Compare-Object: like diff
3. -replace: find & replace, like sed

Windows PowerShell

```
PS> Select-String -Path *.log -Pattern 'ERROR'
PS> Compare-Object (gc old.txt) (gc new.txt)
PS> (gc app.conf) -replace '8080','9090' |
      Set-Content app.conf
```

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