

# Working with Python Using Other IDEs

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# Overview

**Integrated development environments  
for production code**

**Python in IDLE**

**Python in Eclipse**

**Python in PyCharm**

**Python in Spyder**

**Running and debugging code**

**Setting breakpoints and conditional  
breakpoints**

Jupyter is fine for prototyping, but for enterprise-scale development, IDEs still matter

# IDEs and Python



**Jupyter is an execution environment,  
not an IDE**

**For large projects that span notebooks,  
seriously consider an IDE**

# Full IDEs



**PyCharm**

**IDLE**

**Spyder**

**Thonny**

**Eclipse with PyDev**

**Visual Studio**

# IDLE



**Python's own IDE**

**Optional part of language installation**

**Windows, Mac, Linux**

**Simple and not very feature-rich**

**Aimed at beginners**

# Eclipse



**Very popular Java IDE**

**PyDev extension for Python**

**Great for experienced Eclipse users**

**Heavyweight, feature-rich**

**Aimed at pros**

# PyCharm



**Full-feature, Python-specific IDE**

**Paid and free editions**

**Windows, Mac, Linux**

**Somewhat heavyweight**

**Meant for pro users**



# Spyder



**Part of Anaconda**

**Windows, Mac, Linux**

**Basic and not very feature-rich**

**Specifically targets data scientists**

**Variable explorer handy for NumPy arrays and dataframes**

# Demo

**Executing and debugging Python code  
on IDLE**

Demo

**Executing and debugging Python code  
on Eclipse**

Demo

**Executing and debugging Python code  
on PyCharm**

# Demo

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# Summary

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