

# Python Best Practices for Code Quality

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FOLLOWING PYTHON STYLE GUIDELINES:  
PEP8 AND PYLINT



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# Overview



**PEP8: Python style guidelines**

**What is a PEP?**

**Overview of PEP8**

**Applying rules to your code**

**Tools**



# Python Enhancement Proposal (PEP)

A design document providing information to the python community or describing a new feature for python or its processes or environment



# PEP8: Coding Style

**It's about style, not about program correctness**

## Formatting

Lay-out of code and comments

## Whitespace/punctuation

Indentation, quotes, operators, ...

## Naming

Classes, functions, variables, ...

If you get it wrong

Your tools will help you

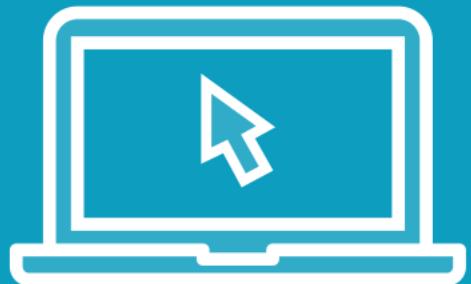


“A Foolish Consistency is the  
Hobgoblin of Little Minds”

Ralph Waldo Emerson



Demo

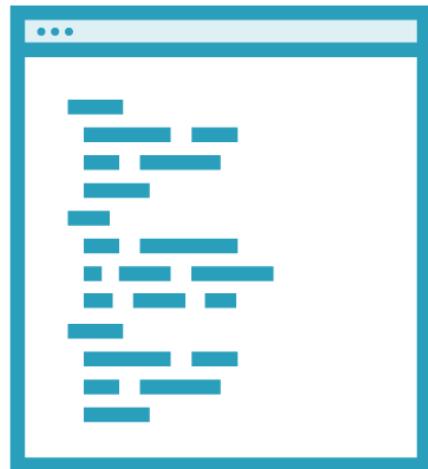


Reading PEP8

Applying the rules to your code



# Lay-out



**Indentation: 4 spaces per level**

**Max. line length 79 characters**

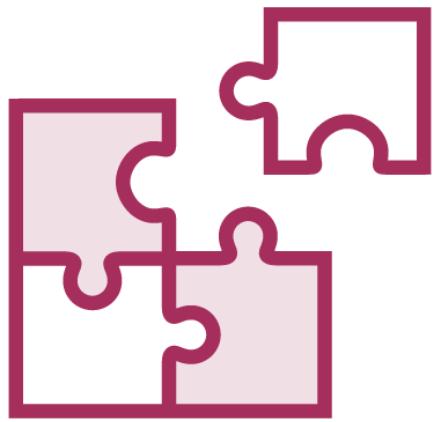
**2 lines between top-level functions and classes**

**1 line between methods inside a class**

**Use of spaces in expressions**



# Imports



**Should be on separate lines**

**Three groups, separated by blank lines**

- Standard library
- Third-party libraries
- Local application/library



# Naming



**Modules: short, lowercase names**

**Classes: CapitalizedNaming**

**Functions: lowercase\_with\_underscores**

**Constants: ALL\_CAPS**

**Non-public names start with underscore**



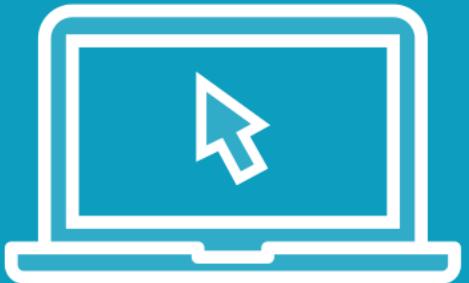
# Documentation



Docstrings for all public modules,  
functions, classes and methods



# Demo



## Other tools

- pylint
- pycodestyle
- black



# Summary



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