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Introduction to Python

Understanding the tools

Design Patterns for Web Programming
Web Design & Development Bachelor of Science Degree



Why Python?

Understanding our toolbox

- Established language (in use since 1980's)
- Widely used, not specifically for web
- Object Oriented Programming Language



Why Python?

Understanding the toolbox

- Used in Major Sites and Web Apps
 - Google Search
 - YouTube
 - Etsy
 - Yelp
 - Bing



Python is in Demand

The question should be “why not python?”

"Python has been an important part of Google since the beginning, and remains so as the system grows and evolves. Today dozens of Google engineers use Python, and we're looking for more people with skills in this language." - **Peter Norvig (Google)**

"Python enabled us to create EVE Online, a massive multiplayer game, in record time. The EVE Online server cluster runs over 50,000 simultaneous players in a shared space simulation, most of which is created in Python. The flexibilities of Python have enabled us to quickly improve the game experience based on player feedback" - **Hilmar Veigar Petursson of CCP Games**

"Python is everywhere at ILM. It's used to extend the capabilities of our applications, as well as providing the glue between them. Every CG image we create has involved Python somewhere in the process," - **Philip Peterson, Principal Engineer, Industrial Light and Magic**

"Python is fast enough for our site and allows us to produce maintainable features in record times, with a minimum of developers," - **Cuong Do, Software Architect, YouTube.com**



Python is in Demand

The question should be “why not python?”

<http://lineofthought.com/tools/python>



Which Python?

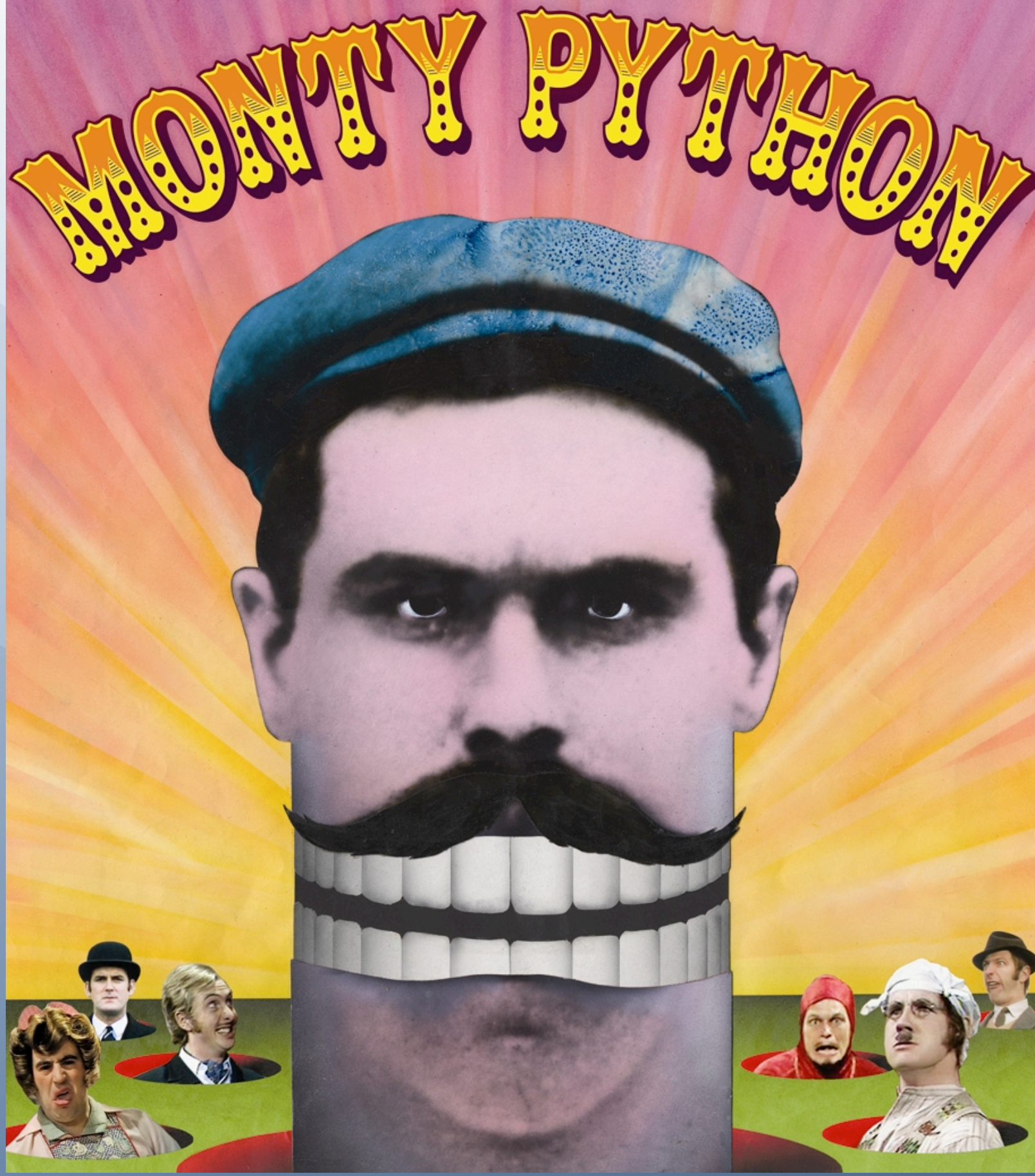
Understanding the toolbox

- Python 2.7
- Python 3 (aka Python 3000) re. 2008
- Google App Engine Launcher uses 2.7
- New style Classes
- Easy to jump to 3.0 if needed





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Editors

Tools for writing Python code

- Simple Text Editors
 - TextWrangler
 - Sublime (get CodeIntel plugin)
 - Coda (get Python plugin)
 - Brackets
 - Terminal
- IDE
 - PyCharm CE
 - Aptana





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Getting our Hands Dirty

Let's write some Python

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