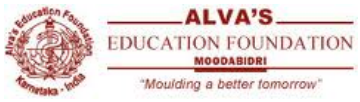
An Introduction to

Programming in Python

Elvis D'Souza

About Me

- Elvis D'Souza *Pugmarks.me*
- 5 years with Python *Including most professional engagements*
- For websites *to* statistics *to* big data *to* systems *to* random (and sometime useless) hacks



Peek

Microsoft Research

INMOBI

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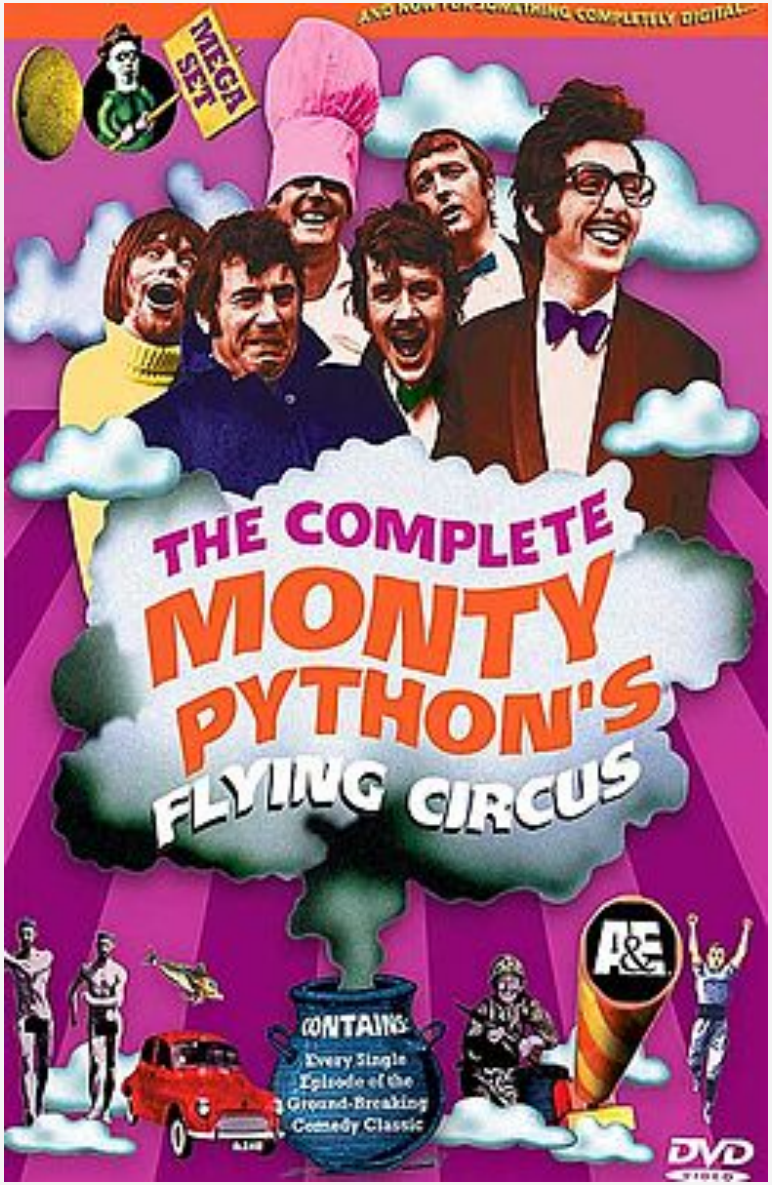
MEGA SET
THE COMPLETE
MONTY
PYTHON'S
FLYING CIRCUS
CONTAINS:
Every Single
Episode of the
Ground-Breaking
Comedy Classic
A&E
DVD

python
TM

Super brief History

- *1989* Guido Van Rossum creates Python
- *1994* Python 1.0
- *2000* Python 2.0
- *2008* Python 3.0

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What is Python

- A high level programming language
- With emphasis on code readability
- Takes relatively fewer lines of code
- Has batteries included
- Is Free and Open Source
- Is Cross platform
- Has a wonderful Community

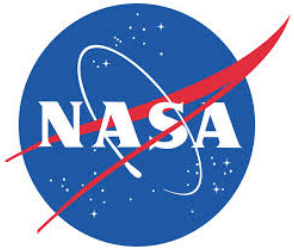
Get Python

- Shipped with your favorite linux distribution
- Shipped with Mac OS
- Windows users download from *python.org/download*

***Python 2.7** is the recommended version*

Adoption of 3.0 will take some more time

Who uses Python?



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Industries & Applications

- Assistive Technologies
- Code Generation
- Computer Graphics
- Configuration
- Data Mining
- Embedded Systems
- Game Development
- Legacy System Integration
- Network Development
- Real Time
- RSS aggregator
- Scalability
- Systems Administration
- Functional, Unit Testing
- User Interface
- Visual Effects
- Web Development
- Apparel Industry
- Aviation
- CRM
- Collaboration Support
- Content Management
- Document Management
- E-Commerce
- Enterprise Resource Planning
- Financial Services
- GIS and Mapping
- Hosting
- Human Resources
- Knowledge Management
- Manufacturing
- Pharmaceuticals
- Quality Control
- Relational Online Analytical Processing
- Homeland Security
- Public Safety
- Traffic Control
- Urban Infrastructure
- Bioinformatics
- Computational Chemistry
- Data Visualization
- Drug Discovery
- GIS and Mapping
- Scientific Programing
- Weather
- Energy Efficiency
- GIS and Mapping
- Lighting
- Marine
- Simulation

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HANDS ON

A little more about Python

- Is Free and Open Source
- Great Interop *especially with C, C++*
- Cpython development is through Python Enhancement Proposals (PEP)
- Cpython is managed by a non-profit – Python Software Foundation

Python **2**.**7**.**4**

- Major versions are backward incompatible
- Major releases have new features
- Bugfix releases, well, fix bugs

Resources

- http://anandology.com/python-practice-book/
- http://swaroopch.com/notes/Python/
- http://kushal.fedorapeople.org/book/
- http://nibrahim.net.in/self-defence/

- http://www.python.org
- http://bangalore.python.org.in/
- http://in.pycon.org/2013/

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