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- GENERAL PURPOSE PROGRAMMING LANGUAGE
  - GUIDO VAN ROSSAM 1989
  - 1991 : PUBLIC
  - C/JAVA : STATICALLY TYPED LANG
  - PYTHON : DYNAMICALLY TYPED LANG
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## WHERE WE CAN USE PYTHON

- DESKTOP APPLICATIONS
  - WEB APPLICATIONS : DJANGO,FLASK
  - DATABASE APPLICATIONS
  - NETWORKING APPLICATIONS
  - GAMES
  - DATA ANALYSIS
  - MACHINE LEARNING
  - AI
  - IoT
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## COMPANIES USING PYTHON

- GOOGLE
  - YOUTUBE
  - DROPBOX
  - NASA
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## FEATURES OF PYTHON

- SIMPLE AND EASY TO LEARN
- **OPEN SOURCE** FREEWARE
- HIGH LEVEL PROGRAMMING LANGUAGE
- PLATFORM INDEPENDENT
- PORTABILITY
- **DYNAMICALLY TYPED**
- BOTH **OBJECT ORIENTED** AND **PROCEDURE ORIENTED**
- **INTERPRETED**
- **EXTENSIBLE**
- **EMBEDDED**

- ***RICH LIBRARY SUPPORT***
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## LIMITATIONS OF PYTHON

- PERFORMANCE
  - MOBILE APPLICATION
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## FLAVOURS OF PYTHON

- CPYTHON
  - JYTHON or JPYTHON
  - IRONPYTHON
  - PYPY [PVM : JIT]
  - RUBYPYTHON
  - ANACONDA PYTHON
  - STACKLESS [CONCURRENCY]
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## VERSIONS OF PYTHON

- PYTHON 1.0 JAN '94
- PYTHON 2.0 OCT '00
- PYTHON 3.0 DEC '08

NO BACKWARD COMPATIBILITY

