Python

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Outline

- First steps
- Introduction to Python
- PyCharm IDE
- Python books
- NumPy
- Pandas
- Matplotlib
- Jupyter notebooks

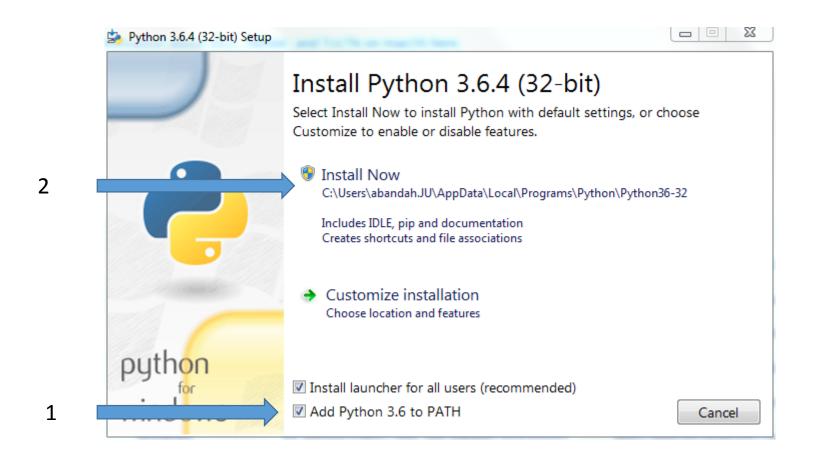
First steps

- Install Python 3.6.4 from www.python.org/downloads/release/python-364/
- For using TensorFlow, you need a 64-bit Python version.

https://www.python.org/ftp/python/3.6.4/python-3.6.4-amd64.exe

- Refer to the documentation on https://docs.python.org
- Study the tutorials on https://www.learnpython.org/

When installing Python, check the "Add to PATH" option



First steps

• From your OS command prompt, check the options of the package installing system by:

C:\>pip3 help

Install needed packages through:

C:\>pip3 install --upgrade jupyter
matplotlib numpy pandas scipy scikit-learn

Introduction to Python

https://www.slideshare.net/nowells/introduction-to-python-5182313

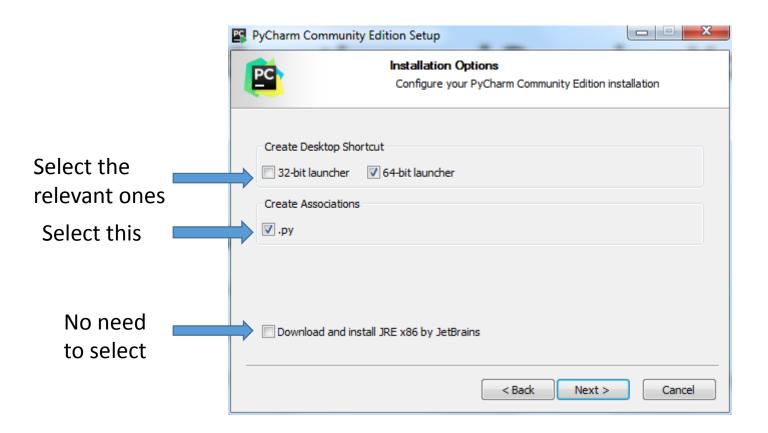
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PyCharm

- Python comes with IDLE. This is a primitive IDE.
- PyCharm is a powerful Python IDE. Install it from https://www.jetbrains.com/pycharm/
- Install the free Community version, which is Lightweight IDE for Python & Scientific development.
- Read the first two steps of "First Steps" at https://www.jetbrains.com/help/pycharm/first-steps.html

PyCharm Installation



Python Books

- A Whirlwind Tour of Python, by Jake VanderPlas, <u>http://www.oreilly.com/programming/free/a-whirlwind-tour-of-python.csp</u> (short)
- 2. Python for Everybody, by Charles R. Severance, https://py4e.com/book.php (medium)
- 3. Fundamentals of Python Programming, by Richard L. Halterman, http://python.cs.southern.edu/pythonbook/pythonbook.pdf (long)