

Text Analysis for Social Sciences in Python

Week 2: Python Basics (cont)

WINTER SEMESTER 21/22

HUYEN NGUYEN

[HTTP://HUYENTTNGUYEN.COM](http://huyenttnguyen.com)

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https://join.slack.com/t/unihamбургworld/shared_invite/zt-wkqywwq13-3OQMM~S~gShngJ~VcTP2~Q

=> Join and introduce yourself, if you haven't done so 😊

(!) Next Wednesday 27.10 = deadline for group matching sign-up

Course channels

[SLACK] Group matching, code bug, research project discussions:

https://join.slack.com/t/unihamбургworld/shared_invite/zt-wkqywq13-3OQMM~S~gShngJ~VcTP2~Q

[GITHUB] Slides, syllabuses, reading articles, supplementary materials, exercise sessions:

<https://github.com/httn21uhh/Text-Analysis-for-Social-Sciences-in-Python>

General course format

- Wednesdays 08.15 – 10.45 @ WiWi 1005
 - Exception! [W8] Wed 01.12 no class – Zoom group consultation appointments (15'/group) for project proposals (slot sign-up in [W5])
 - Class starts @ 8.15 AM sharp.
- 45' lecture → 10' break → 45' practice (individual) → 5' break → 45' practice (in teams, Week 4 onwards)

Last week...

This week...

Open your Google Colab/ Jupyter Notebook

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Python file handling, conditional statements, logical operators and loops

Packages necessary for text analysis (numpy array, panda*, nltk*, scikit-learn*)

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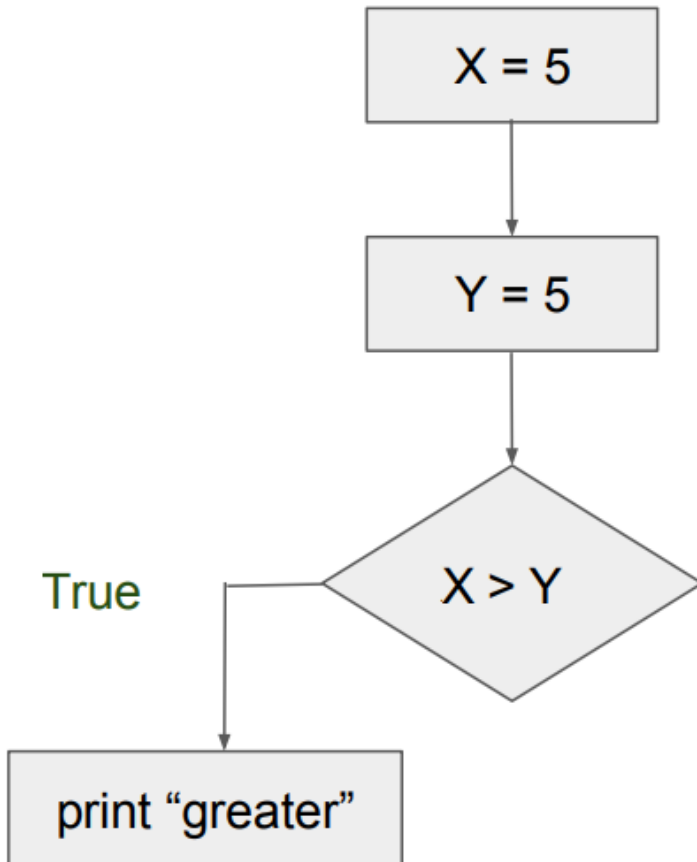
Python file handling, conditional statements, logical operators and loops

numpy array, panda

- Follow closely the illustrated examples and replicate yourself as the session proceeds.
- Raise your hands to ask questions at any point, including when you think things go too fast/slow for you.

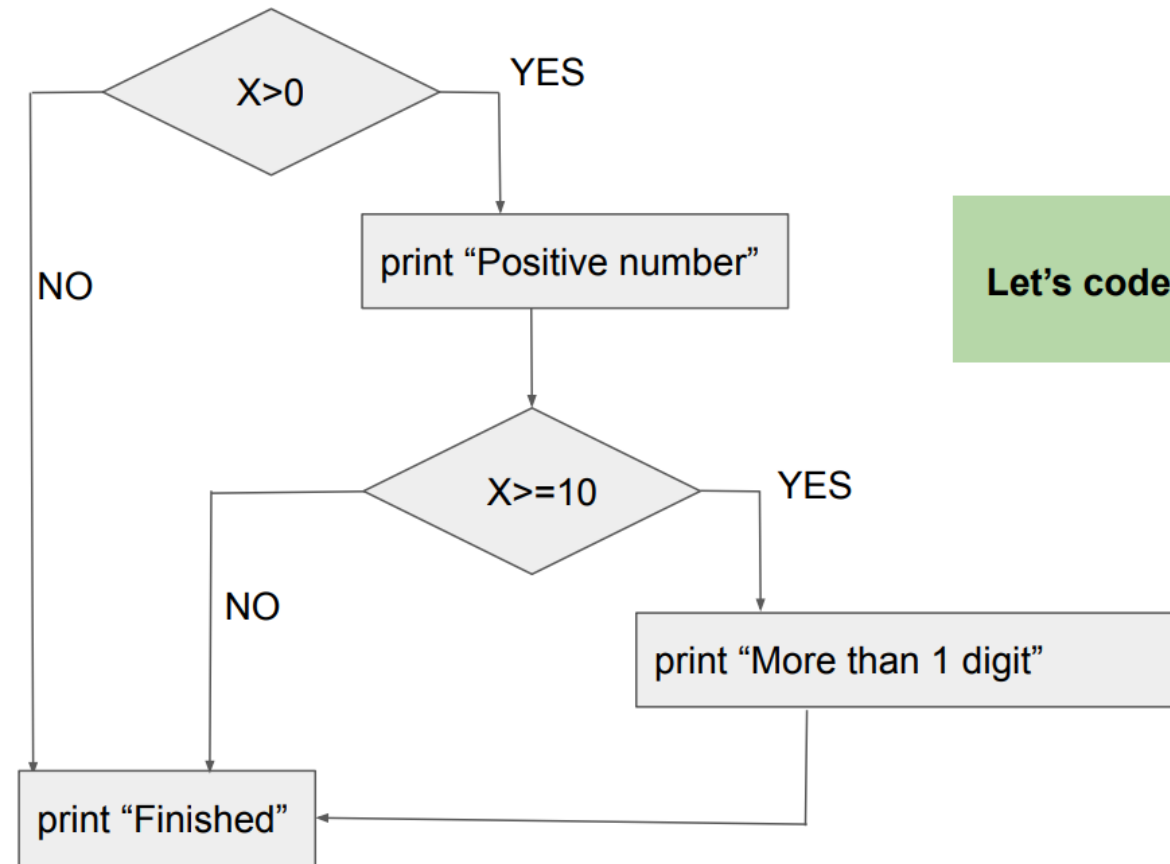
File handling: directories & subdirectories

Conditional Statements & Comparison operators



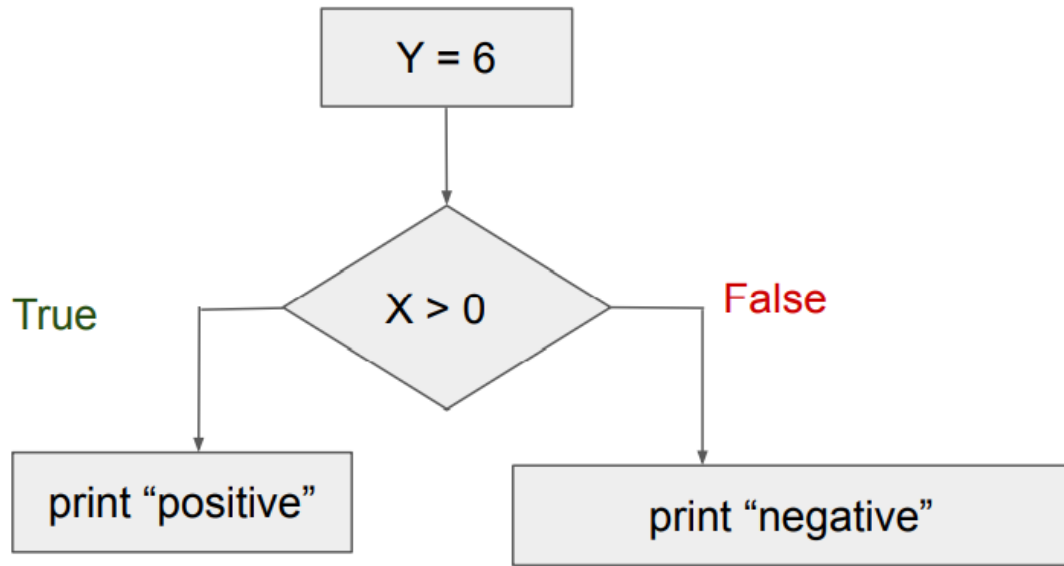
Python	English Interpretation
<	Strictly Less than
<=	Less than or equals
==	Equals
>=	Greater than or equals
>	Strictly Greater than
!=	Not equals

Nested decision (a.k.a “Inception” in Python)



Let's code it right away !

Two-way decisions

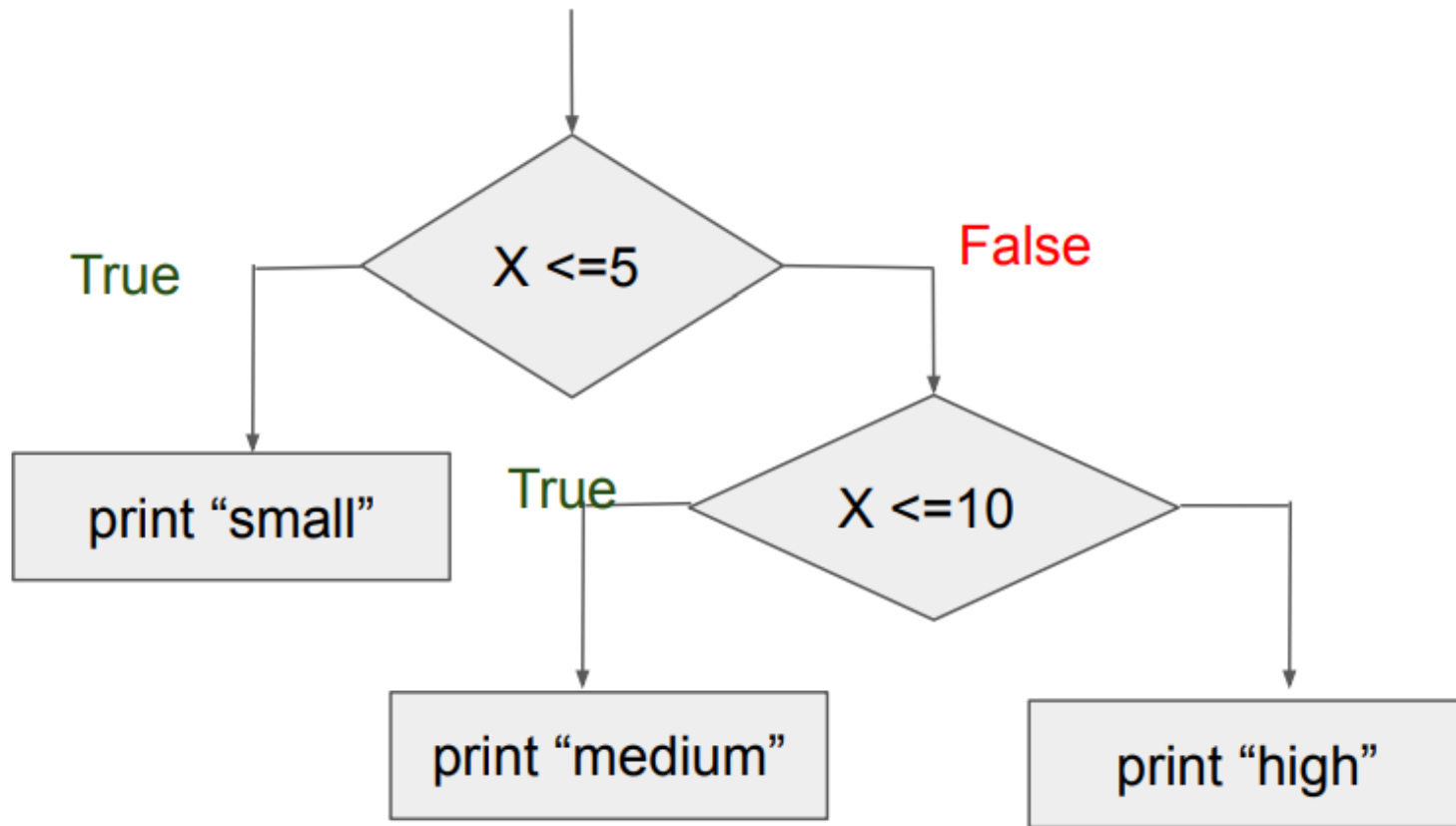


if condition **is True**:
do this

else:
do that

(!) **else** canNOT stand alone. It needs to be preceded by **if** block.

Multiway decisions



How to code this
with only **if** and
else?