

# PyNoon

Week 1



# Thanks

- To the sponsors and host!
- You - for making this a success



# Administrivia

- Fire escapes
- Bathrooms
- Cleaning up after ourselves
- WiFi



# Introductions

- Instructors
- Helpers
- Attendees
  - Raise your hand if...
  - ...you haven't ever programmed before?
  - ...you haven't programmed in the last year?
  - ...you haven't used Python before?





# Why Python?








# World's Most Popular Programming Language

## Python ends C and Java's 20-year reign atop the TIOBE index



by **Brandon Vigliarolo** in **Developer**   
on October 11, 2021, 6:51 AM PDT

[techrepublic.com/article/python-ends-c-and-javas-20-year-reign-atop-the-tiobe-index/](https://techrepublic.com/article/python-ends-c-and-javas-20-year-reign-atop-the-tiobe-index/)

Oct 2023	Oct 2022	Change	Programming Language
1	1		 Python
2	2		 C
3	4	▲	 C++
4	3	▼	 Java
5	5		 C#

**#1**

“Python, which started as a simple scripting language, as an alternative to Perl, has become mature. Its **ease of learning**, its **huge amount of libraries** and its widespread use in **all kinds of domains**, has made it the most popular programming language of today,” said TIOBE CEO Paul Jansen.



# World's Main Teaching Language

- Shallow learning curve - simpler syntax than Java or C++.
- Novices can start writing programs almost immediately.
- Flow of new graduates altering the workforce (in one direction)

## Python bumps off Java as top learning language

Eight out of the top 10 universities now use Python to introduce programming



By **Joab Jackson**

U.S. Correspondent, **IDG News Service** | JUL 8, 2014 10:44 AM PDT

[infoworld.com/article/2452940/python-bumps-off-java-as-top-learning-language.html](http://infoworld.com/article/2452940/python-bumps-off-java-as-top-learning-language.html)



# Versatile

- Can use same language for:
  - data science
  - web development
  - automation
  - big data pipelines
- No splintering of teams by language
  - less risk - the team, and new Python hires, can do whatever is needed
  - more efficient - always something interesting for the team to do
  - higher quality code - not mediocre at lots of languages but good at one





# What to expect from PyNoon



# Course Objectives

- **PyNoon Starter:** Learning the very basics of Python programming
- **PyNoon Data:** Analysing and plotting tabular (spreadsheet) data
- **PyNoon Plus:** Advanced topics, from using AI models to calling web APIs



# Course Objectives

- **Along the way:**
  - Not just about getting the right output - we want to help you write *readable* and *maintainable* Python code
- **By the end:**
  - We want you to be solving *your* problems with Python



# Lesson Structure

- Times are a guideline - but core will be **12:00pm - 1:00pm**
- **11:30am - 12:00pm** - Independent work and help with homework
- **12:00am - 12:30pm** - Lunch, networking, and whiteboard lesson
- **12:30pm - 1:00pm** - Follow-along live-coding tutorial
- **1:00pm - 1:30pm** - Independent work
  - Exercises following on from live coding
  - Lessons from **futurecoder.io**
  - Extension exercises from **<https://fullstackpython.com>**
- We recommend completing outstanding work as homework
  - Optional, but recommended to become productive in Python within the timeframe of the course



# Tips For Getting the Most Out of PyNoon



# Here to Learn

- As much as humanly possible **don't do emails and work**
  - You'll barely have enough time as it is to become a productive coder
- Even if you're more advanced **do the simple things** (albeit faster)
  - Sometimes there are things you missed the first time or have forgotten



# Questions?



# Lunchtime!

- Say hello to someone you didn't come with
- Find out what other people want to use Python for

