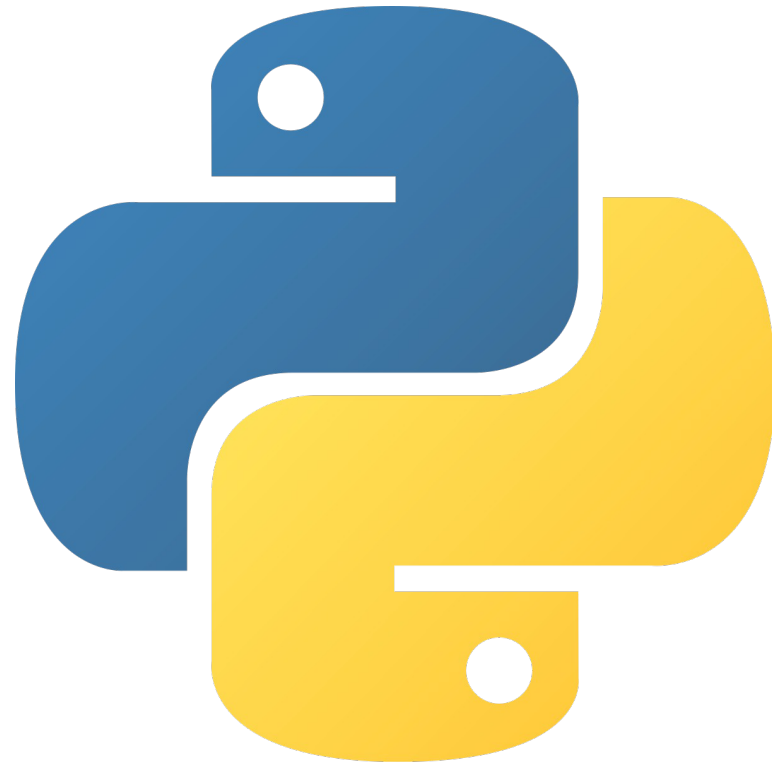# HackerFrogs Afterschool
Python Programming Basics: Intro

Class:
Programming (Python)

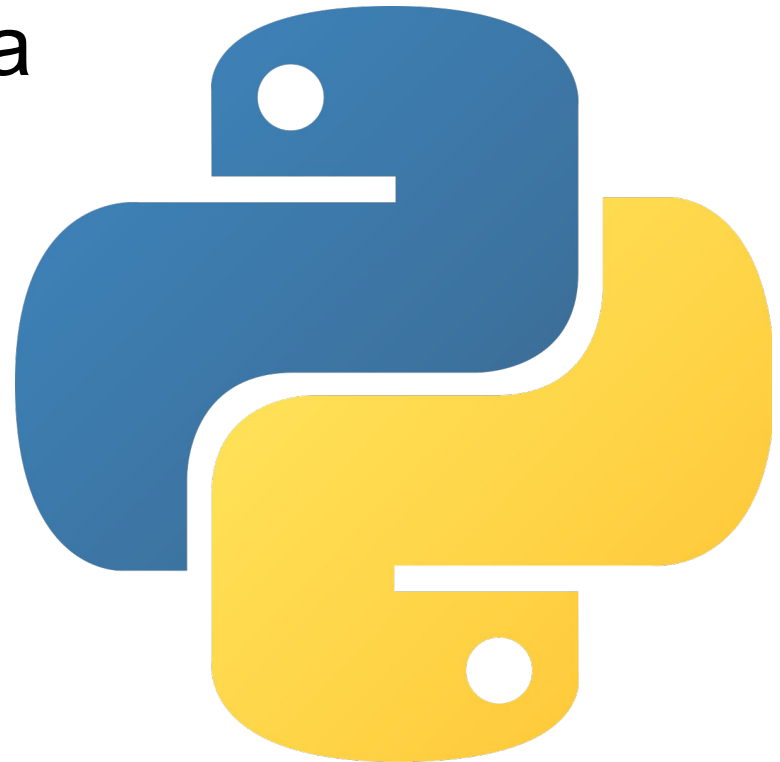Workshop Number:
AS-PRO-PY-00

Document Version:
1.5

Special Requirements:
None

Welcome to HackerFrogs Afterschool!

HackerFrogs Afterschool is a cybersecurity program for learning beginner cybersecurity skills across a wide variety of subjects.

This is the intro to Python programming.

What is Programming?

According to Wikipedia, computer programming is the process of performing a particular computation (or more generally, accomplishing a specific computing result), usually by designing and building an executable computer program.

What is Programming?

Put in broader terms, programming is the process of writing instructions for a computer to execute.

What is Programming?

The instructions can result in output as simple as printing the answer to a simple math equation or a word to the screen, or as complex as the latest video editing software, games, websites, or countless other pieces of software used in our daily lives.
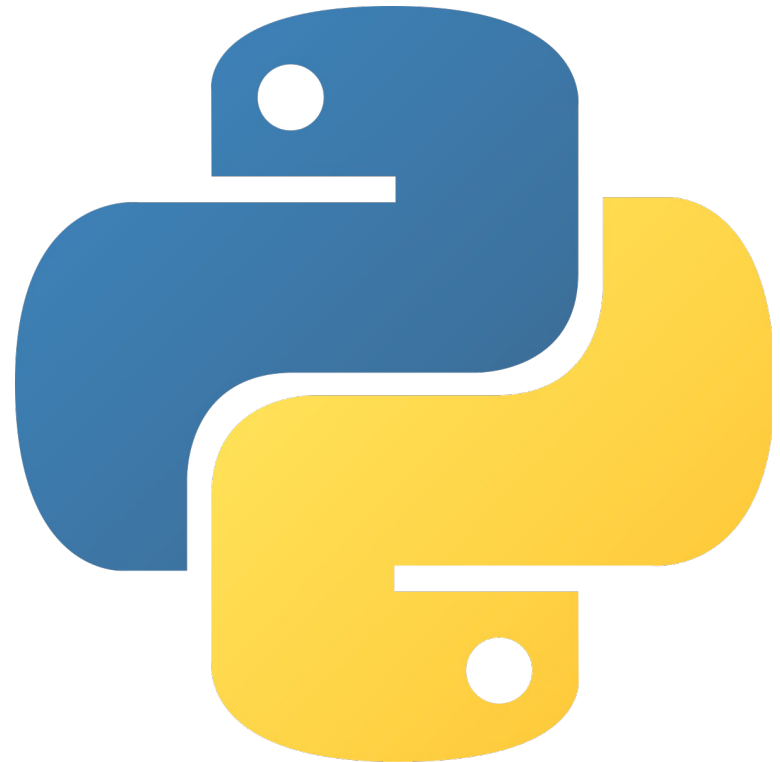
What is Programming?

Many different programming languages are used for writing software, and each programming language has its own advantages and disadvantages for developing different types of software.

What is Programming?

The programming language we will learn to use in these workshops is called Python.

Why Learn Python?

There are a lot of programming languages out there, so why are we learning Python?

We'll go over three reasons:

Why Learn Python?

1) Python is a very popular language with an active online community, so there's a lot of support for students.

Why Learn Python?

2) Python uses a syntax that is much closer to written English than other programming languages, so it's easier to read and understand

```
>>> print("Hello World!")
Hello World!
>>>
```
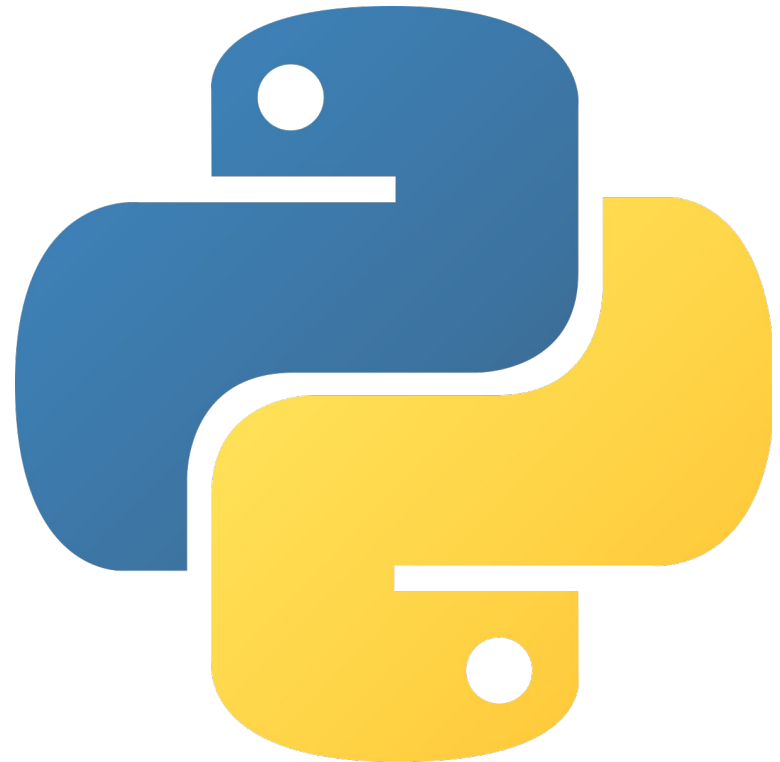
Why Learn Python?

3) Python automates some tedious operations common to other programming languages, such as memory management.

What's Next?

In the next HackerFrogs Afterschool programming workshop, we'll start learning Python with the **learnpython.org** website.

Until Next Time, HackerFrogs!