

Code Girls 2020-21



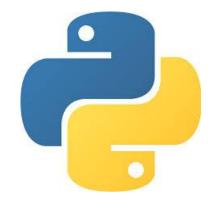
# What we know and what we are going to focus on today.

#### We know

- Basic syntax
- Basic Data Structure

### Today's Focus:

- Integrating our previous knowledge with a "For Loop"
  - Learn the syntax and range of application for a "For Loop"



## **Before we start loops:**

The basis of coding and programming is?

Logic!

One of the most important tools is the if, elif, else statements.

## **Comparison Operators**

Operator	Meaning
==	Equal to
!=	Not equal to
>	Greater than
<	Less than
>=	Greater than or equal to
<=	Less than or equal to

# Syntax of if/else

```
if ([statement]):
                             if ([statement]):
                                                              [do stuff]
      [do stuff]
                                   [do stuff]
                                                        elif ([statement]):
elif ([statement]):
                             else:
                                                              [do stuff]
                                  [do stuff]
      [do stuff]
                                                        elif ([statement]):
else:
                                                              [do stuff]
      [do stuff]
                                                        else:
                                                              [do stuff]
```

if ([statement]):

## **Hypothetical Situation**

We know how to output "x": print("x")

But what if we wanted to print "x"... a bunch of times???

- If it is a few number of times, maybe we could repeat the command
- But that is a lot of work
- If only there was a better way ....

# Introducing .... "FOR LOOPS"!

A "for loop" is used for iterating over a sequence.

Basic syntax:

for [variable name] in [define a range]:

[statement]

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# **Acknowledgments**

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