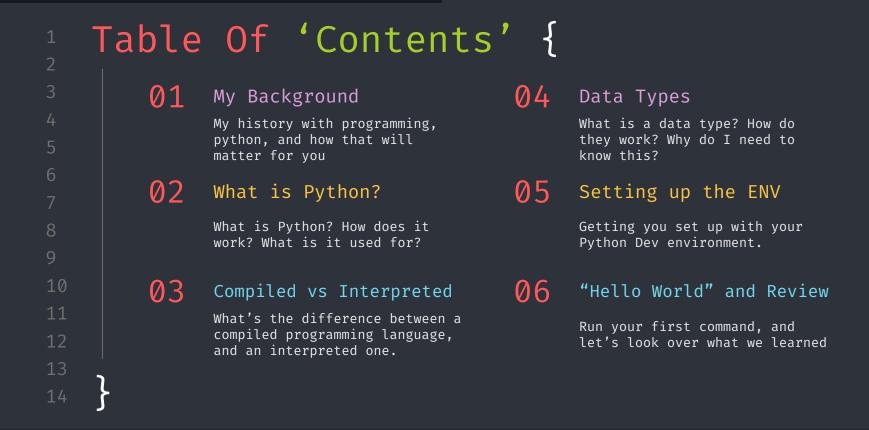
python101.py

presentation.pptx

```
Land Acknowledgement {
 I would like to begin by acknowledging that Heritage
 Regional High School is located on unceded Indigenous
 lands. The Kanien'kehá:ka Nation, part of the
 Haudenosaunee confederacy, are recognized as the
 custodians of the beautiful lands and waters on which
 we gather today.
```







# 01 My Background

#### My Experience

#### Studies:

- Vanier College Computer Science Technology - 3 Year Technical Program
- **Concordia University** Bachelor's in Engineering - Computer Engineering

#### Work:

- Hydro-Quebec Python developer for the APD team
- DriveCX Backend developer specializing in AWS QuickSight and ChatGPT

```
My Skill Set
 In my education and career, I've come to know the
 following programming languages, tools, and
 integrations:
      Java
                      HTML
                                    ChatGPT
      C#
                   ☐ CSS
                                    AWS
      PHP
                   □ MS365
                                    Unity
     Python
             □ SQL
                                    Windows
      JavaScript
                   ☐ Git
                                 ☐ Linux!!
```

### Why this matters for you

- If you pursue Computer Science in CEGEP, you'll be entering with knowledge of some programming best practices.
- Companies are always looking to hire programmers, so this can be your entrypoint to the workforce.
- You can trust that what I'm teaching you will give you value later on... And it's fun!

UZ | WIIdl ]

02 What is Python?

# Can anyone tell me what Python is?

```
The answer {
      Python is a programming language
      Python is INTERPRETED
      Python is Weakly Typed
      Python is Simple
  AND...
      I think Python is fun
```

## Big Apps that use Python {

According to Monocubed, the following apps all include sections built in Python;

- Spotify
- Pinterest
- Uber
- Quora
- Facebook
- Reddit
- Instagram

Patel, Jeel. "8 Most Popular Apps Built with Python to Consider in 2023." *Monocubed*, Monocubed, 27 Apr. 2021, www.monocubed.com/blog/apps-built-with-python/.



```
Compiled Languages {
  Compiled languages are programming languages
  that use a compiler!
  This means that when you write the code, it
  is compiled into machine code (What your
  computer understands), and then it can be
  executed very quickly.
  Compiled languages are fast to run, but they
  can be very slow to compile.
```

```
Interpreted Languages {
  Interpreted languages are programming
  languages that use an interpreter!
  The interpreter reads and converts the code
  as it is being executed, so no compiling is
  necessary!
  Interpreted languages are slower to run, but
  they have no compile time.
```

```
Compiled
Java
            Compiled
  C#
           Compiled
 C++
           Compiled
 Visual Basic - Compiled

   Assembly - Neither
   Ruby - Interpreted
```

- PHP - Interpreted
- JavaScript Interpreted
- Golang Compiled
- Rust Compiled
- Python Interpreted

presentation.pptx

Primitive Data Types { - Char: A single character. (e.g. 'A') Int: A whole number (e.g. 117) - Float: A non-integer with a maximum of 64 bits (e.g. 11.7, or the max of 1.8 x 10308) In other programming languages, the float has a max of 32 bits, and another data type called Double supports 64 bits Boolean: True or False

```
Complex Data Types {
   - String: A word, sentence, or any series
      of characters. (e.g. "Hello World")
  There are other complex data types such as
  Objects and Arrays, but we'll cover those
  later.
```

```
Name the Data Type:
   • "I went to the store yesterday"
      1347.0
      True
      11.5994
      'a'
      "Chicken"
      502
```



Let's get started { Go to: <a href="https://www.python.org/downloads/">www.python.org/downloads/</a> Download the latest version for Windows Download Python 3.11.5 Looking for Python with a different OS? Python for Windows, Linux/UNIX, macOS, Other Want to help test development versions of Python 3.12? Prereleases, **Docker images** 

Next we need VSCode { Go to: code.visualstudio.com/download **Windows** .deb ↓ .rpm Mac Windows 10, 11 Debian, Ubuntu Red Hat, Fedora, SUSE macOS 10.11+ User Installer .zip Intel chip Apple silicon Universal System Installer x64 x86 CLI Intel chip Apple silicon .zip .tar.gz x64 Arm32 Arm64 CLI



06

"Hello World" and Review

Let's Recap Today, We learned: How to set up a Python Dev environment Primitive Data Types Compiled vs Interpreted programming languages What is Python and what is it used for

```
Next class;
      We're going to learn
   operators and operands, if
    statements, and I'll be
     giving you your first
          assignment.
```

```
Thanks():
```

## # Any questions?

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