Slide ideas

- How to install it ✅
- This is how we learned it ✅
- This is how it went ✅
- This is how we approached python ✅
- We made this comparison from JavaScript to python ✅
- History ✅
- Demo ✅

Slide Templates

- https://www.slidescarnival.com/template/introduction-to-html-tutorial/124224
- https://www.slidescarnival.com/template/all-about-packaging-graphic-design-lesson-for-college/33520

Python was first released on **February 20, 1991**, by its creator Guido van Rossum. It was started as a hobby project during the 1989 Christmas holidays and has since become a very popular programming language, according to the Python documentation and LearnPython.com.

- **First release:** February 20, 1991.
- **Creator:** Guido van Rossum.
- **Origin:** Started as a hobby project during the Christmas break of 1989.
- **Name:** Named after the BBC comedy show, Monty Python's Flying Circus.
- **Python 1.0:** Released in January 1994.

Requirements

Programming logic:

- Expected: a demo that implements the target item; explains how to import
- Exceeding: excellence

Modern development tools:

- Expected: explains something new to you
- Exceeding: explains something new to most students

Dev skills & industry practices:

- Expected: use documentation from multiple sources
- Exceeding: compare documentation for usability; provide references for others to follow

Professional skills: presentation

- Expected: present to time, with a slide deck, appropriately for audience (max. 5 mins)
- Exceeding: cool slide deck & excellent communication and slick delivery

Professional skills: collaboration

- Expected: use Trello to manage sharing tasks, completed in time, communication methods described
- Exceeding: cool Trello board & evidence of close working (eg from smooth presentation, shared understanding, paired programming)

Slides

1. **Welcome page ✅ (Gabby)**
2. **History CHANGE TO SIDE 3 ✅ (Gabby)**
    - Python was created by Guido van Rossum.
    - Van Rossum named it after the British comedy group Monty Python's Flying Circus, as he was reading the show's scripts at the time.
    - It started as a hobby project during the Christmas break of 1989.
    - Python was explicitly designed as a successor to the ABC programming language, which Van Rossum had also worked on at CWI.
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3. **This is how we approached python CHANGE TO SIDE 2 ✅ (SAM)**
    - For the assignment we were both thinking we wanted to do a language we see a lot on job ads and one of the ones that stood out was Python as its **MENT** to be beginner friendly.
    - We wanted to try and keep it simple and show the differences between JavaScript and Python
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4. **This is how we learnt it (SAM) ✅**
    - We watched a lot of youtube videos
    - We both learn better watching how something is done over reading
    - All of the documentation, Videos and other links we used are listed within our github repo
    - The knowledge we have learned over the last 10 weeks while on this course
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5. **How to install it (Gabby) ✅**
    - As we was both on different systems it was quite interesting to see the small differences in the install process
    - We followed the documentation on the python site and a youtube video for visual guidance
    - We have written out step by step guides on how to install it on either windows or apple that you'll be able to find within our github repo
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6. **Demo (SAM) ✅**
    - This is where we will show the short demo we have put together.

7. **This is how it went (SAM & Gabby)**
    - We hit a road block when trying to get the repo cloned and running on Gabby's laptop.
    - Conclusion with your reflections (skills improved, how you communicated, lessons learnt...)
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8. **We made this comparison from JavaScript to python (SAM & Gabby)**
    - ⬇️⬇️ Check Below ⬇️⬇️

Python	JavaScript
Runs on a server or locally via an Interpreter	Runs natively in the web browser
Uses readable words: and, or, not.	Uses symbols: &&, **`
Python is often called "Batteries Included" because it has built-in tools for nearly every technical domain, especially data.	JavaScript is essential for the browser and has an enormous ecosystem for user interfaces and real-time interaction.
Data Science (NumPy, Pandas), Machine Learning (TensorFlow), Automation, and Backend Web Development (Django, Flask).	Frontend Web Development (React, Vue), Browser Interactivity, and Full-Stack Development (Node.js).
from flask import Flask	import { redirect } from "next/navigation";
print("Hello World!")	console.log("Hello World!")
no let/const for declaring variables → my_greeting = "Hello World"	needs let/const for declaring variables → let myGreeting = "Hello World!"
Naming convention snake_case → my_name = "Gabby"	Naming convention camelCase → myName = "Gabby"
Package installer tool → PIP	Package installer tool → NPM

Choose Python for:

- Data-intensive applications: AI/ML, Big Data processing, Business Intelligence
- Complex business logic where code maintainability is paramount
- Rapid prototyping of backend APIs where performance is not the absolute highest priority
- Projects that require strong security and a structured approach (using Django)

Choose Express.js for:

- Real-time applications: Live chat, online games, streaming dashboards
- I/O-bound tasks requiring high throughput (handling many simultaneous connections)
- Projects where having a full-stack JavaScript team is a priority