Python



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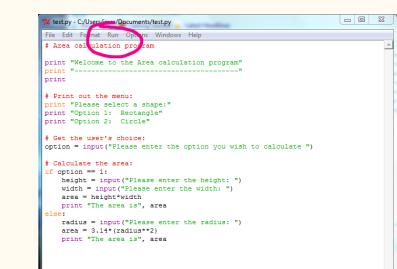
What is a Programming Language?

 \star A programming language is the language of the computers.

- ★ These languages have to give exact directions to the computers and they should leave no room for interpretation.
- ★ The languages go from higher level to lower languages, meaning that some are more like the words we speak than others. Higher level languages are closer to our usual speech than lower level languages.
- ★Some examples of languages include HTML, CSS, JavaScript, Java, C, Assembly, and Python.

What is Python?

- \star A high level programing language
 - Meaning that it's closer to english than other languages.
- \star It allows programmers to use few lines of code
- \star It's a readable code
- \star Has clear syntax
 - Syntax: is essentially the spelling and grammar of a programing language.
- \star Can be used in many different operating systems
 - For example: <u>Mac OS</u>, <u>MS-DOS</u>, and <u>Window 98</u>.



Who Made it?

 \star Python was created in the late 1980's by a Dutch programmer, Guido van Rossum

★ He was born in January 31, 1956

 \star Got a masters in both computer science and mathematics at the University of Amsterdam

 \star In 2001, he received the Award of Achievement of Free Software

\star Worked for Google from 2005-2012. Then join Dropbox

 \star Also worked on the ABC programing language

 \star Created the early Grail web browser



Python in your Everyday Life

- ★ Uber
- ★ Youtube

 \star Pinterest







★ Dropbox





Other Programming Languages! *->software

★ HTML → Hyper Text Markup Language, a programming language used to describe Web pages. (Brackets*)

★ CSS \rightarrow Cascading Style Sheets, controls the cosmetic appearance of a website.(Brackets*)

★ JavaScript \rightarrow Used in tandem with HTML and CSS for Web Design,

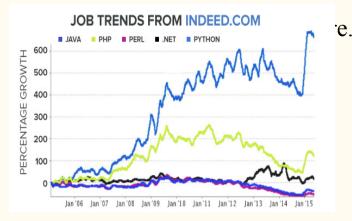
★ Java \rightarrow an object-oriented language.

★ Binary \rightarrow Machine language. This consists entirely of 1s and 0s. It is also called Base 2.

The Future of Python

★ The number of Python users are climbing rapidly because of the clear syntax and the many possibilities of things you can do with this language.

★ There also also millions of children learning how to use Python at an early age because they can create awesome things using this language.





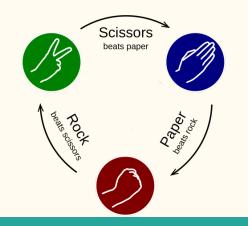
What we Learned

- \star larger appreciation for how hard it is to create a working program.
- \star Grew resilience, understanding, and patience
- \star Honed our problem solving skills
- \star Discovered how creativity plays into programming
- ★ Keep a keen eye

Python Program

Anyone wanna play Rock, Paper, Scissors?

We coded this program using "if-else" statements. These statements decide what happens in your program. After an "if or else" statement the programmer will tell the computer what to say to the user (the one playing the game).



How to learn!

\bigstar Websites

- Codecademy.com
- Codesters.com
- Treehouse.com
- \star If we've learned anything, it's that the world is at your fingertips!
- \star There is so much you can do with Python if you put your mind to it.
- \star Books
 - Python Cookbook 3rd edition. Authors: David Beazley & Brian K. Jones
 - Python Essential Reference. Author: David Beazley
 - $\circ~$ Python Programming: An Introduction to computer science. Author: John Zelle
 - A Byte of Python. Author: Swaroop C.H.
- \star Youtube Channels
 - 360° Code Everything
 - Trevor Payne

*A software that you can use for python is IDLE (Python GUI)

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Thanks For Watching!

Any Questions?