

Python

Introduction



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how long it takes to write a program



how long it takes to write a program

how long it takes that program to run



how long it takes to write a program

how long it takes that program to run

human time



how long it takes to write a program

how long it takes that program to run

human time

machine time



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Every language makes a tradeoff between these



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Python



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Python MATLAB



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machine time

Every language makes a tradeoff between these

Python

Fortran

MATLAB



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machine time

Every language makes a tradeoff between these

Python

Fortran

MATLAB

 C



how long it takes to write a program

how long it takes that program to run

human time

machine time

Every language makes a tradeoff between these

Python

Java

Fortran

MATLAB

 C



how long it takes to write a program

how long it takes that program to run

human time

machine time

Every language makes a tradeoff between these

Python

Java

Fortran

MATLAB

C#

 C



write a program

how long it takes to how long it takes that program to run

human time

machine time

Every language makes a tradeoff between these

Python Fortran Java

MATLAB C#



Teaching you Python is *not* the point of this course



Teaching you Python is *not* the point of this course But we have to write examples in some language...





free



- free
- cross-platform



- free
- cross-platform
- widely used



- free
- cross-platform
- widely used
- well documented



- free
- cross-platform
- widely used
- well documented
- well supported

Python



This course will *not* teach you basic programming





variables



- variables
- loops



- variables
- loops
- conditionals (if / else)



- variables
- loops
- conditionals (if / else)
- lists / arrays



- variables
- loops
- conditionals (if / else)
- lists / arrays
- how to read data from a file



- variables
- loops
- conditionals (if / else)
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- how to read data from a file

This lecture will show you how to do these in Python



- variables
- loops
- conditionals (if / else)
- lists / arrays
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This lecture will show you how to do these in Python

well



narrated by

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