

Computer Science I

CMPE/CSCI 1370 - 01

MW 9:25 am - 10:40 am

<http://bit.ly/votingcards>

JJ Lumagbas

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Peer-instruction

Think - Pair - Share

Me:

A. Not from around here

B. Have a BS and Masters

C. Currently working on PhD

D. Worked as full time programmer for 4 years

E. Taught at university-level since 2008

Me:

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~~C. Currently working on PhD~~

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Me:

A. Lived inside a church building til 18yo

B. Went skydiving with wife when son was 10mos

C. Has freedived to 25ft (no scuba gear!)

D. Worked as a barista in Melbourne, AU

E. Had eye poked repeatedly with a needle (not by accident)

What's your current major?

A. Computer Science

B. Computer Engineering

C. Other Engineering

D. Other Science

E. Other

How much programming experience do you have?

A. None

B. 3 months or less

C. 6 months or less

D. 1 year or less

E. More than a year

What is a program?

What is programming?

What is a programming language?

WHAT IS A PROGRAM?

WHAT IS A PROGRAM?

Inputs -> Process -> Outputs

WHAT IS PROGRAMMING?

WHAT IS PROGRAMMING?

Encoding information as data

**Listing instructions to
operate on that data**

To produce a result

WHAT IS A PROGRAMMING LANGUAGE?

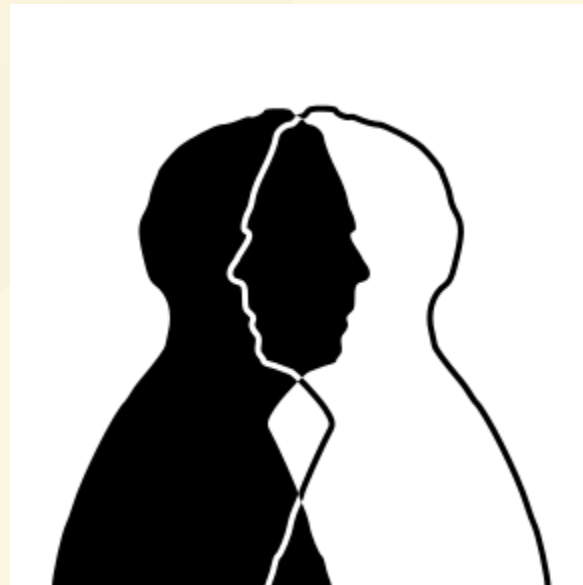
WHAT IS A PROGRAMMING LANGUAGE?

Arbitrary set of words that represent:

Data

Operations

Control structures



Write a program that converts a black and white image to its negative

WHAT IS PROGRAMMING?

1. Encoding information as data
2. Listing instructions to operate on that data
3. (To produce a result)

WHAT IS PROGRAMMING?

1. How do we represent a black and white image as data?
2. Which instructions and operations do we need to perform on that data?

Project demos

Syllabus highlights

<http://github.com/jjlumagbas/1370>

<http://bit.ly/1370codenames>

Photo