



CSCI 141: Computer Programming I

Lecture 0

Introduction, Logistics, Hello World

Today

- What is this course about?
- Why are we here?
- Who is this character?
- Syllabus questions
- Meet your team!
- Let's write some code already!

What is this course about?

- What is this course about?
- What will you learn?

What is this course about?

From the course catalog:

Basic concepts of computer programming using an object oriented programming language. Topics covered: introduction to the development environment, introduction to algorithms, elements of a programming language, including data types, packages, control structures, procedures and functions, basic input and output, arrays and records, text files, strings, variant records. Algorithm development, problem solving and software engineering are emphasized.

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What is this course about?

Computer Programming:

- data types
- control structures
- functions
- strings
- arrays

These are the “nuts and bolts”:
the *syntax* and *semantics* of
programming languages.

Dictionary

Search for a word



se·man·tics

/sə'man(t)iks/

noun

the branch of linguistics and logic concerned with meaning. There are a number of branches and subbranches of semantics, including *formal semantics*, which studies the logical aspects of meaning, such as sense, reference, implication, and logical form, *lexical semantics*, which studies word meanings and word relations, and *conceptual semantics*, which studies the cognitive structure of meaning.

- the meaning of a word, phrase, sentence, or text.

plural noun: semantics

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What is this course about?

Problem Solving and Software Engineering:

- Break down and analyze problems
- Design algorithms that solve problems
- Describe algorithms in pseudocode
- Implement algorithms using clearly written, correct Python code.
- Fix errors and make changes to the code once it's written.

Computer Programming:

- data types
- control structures
- functions
- strings
- arrays

Why learn to program?

- Why do you want to learn how to program?

Why learn to program?

- Some ideas:
 - Get a job with cool perks and a high salary

Why learn to program?

- Some ideas:
 - Get a job with cool perks and a high salary
 - Automate repetitive tasks





to OUTDOORED-L ▼

Hi there,

Ice cream for the first person who can get me what I want.

Count the number of times each person's name occurs with Column A=Person's Name, Column B=# of Occurrences.

READY? GO!

Thanks,

Andrew

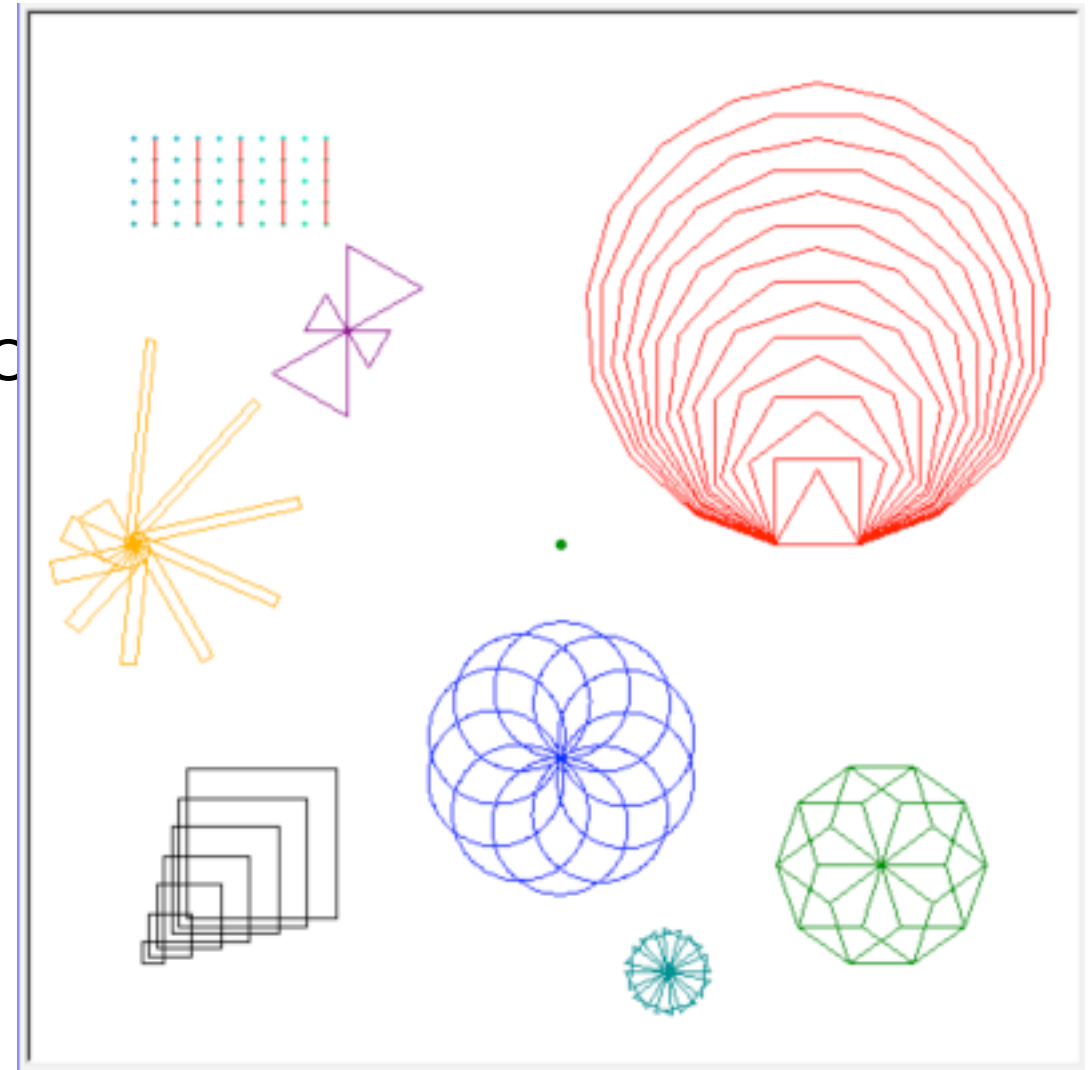
Cornell Outdoor Education
Climbing Program Coordinator

	A
1	Name
2	Anthony Santopoli
3	Anthony Santopoli
4	Aaron Everhart
5	Aaron Everhart
6	Aaron Everhart
7	Aaron Everhart
8	Aaron Everhart
9	Aaron Everhart
10	Aaron Everhart
11	Aaron Everhart
12	Aaron Everhart
13	Aaron Everhart
14	Aaron Everhart
15	Aaron Everhart
16	Aaron Everhart
17	Aaron Everhart

 **Pass Visit Reports....**

Why learn to program?

- Some ideas:
 - Get a job with cool perks and a high salary
 - Automate repetitive tasks
 - Process or analyze data you encounter in your profession
 - Execute your creative vision



Why learn to program?

- Some ideas:

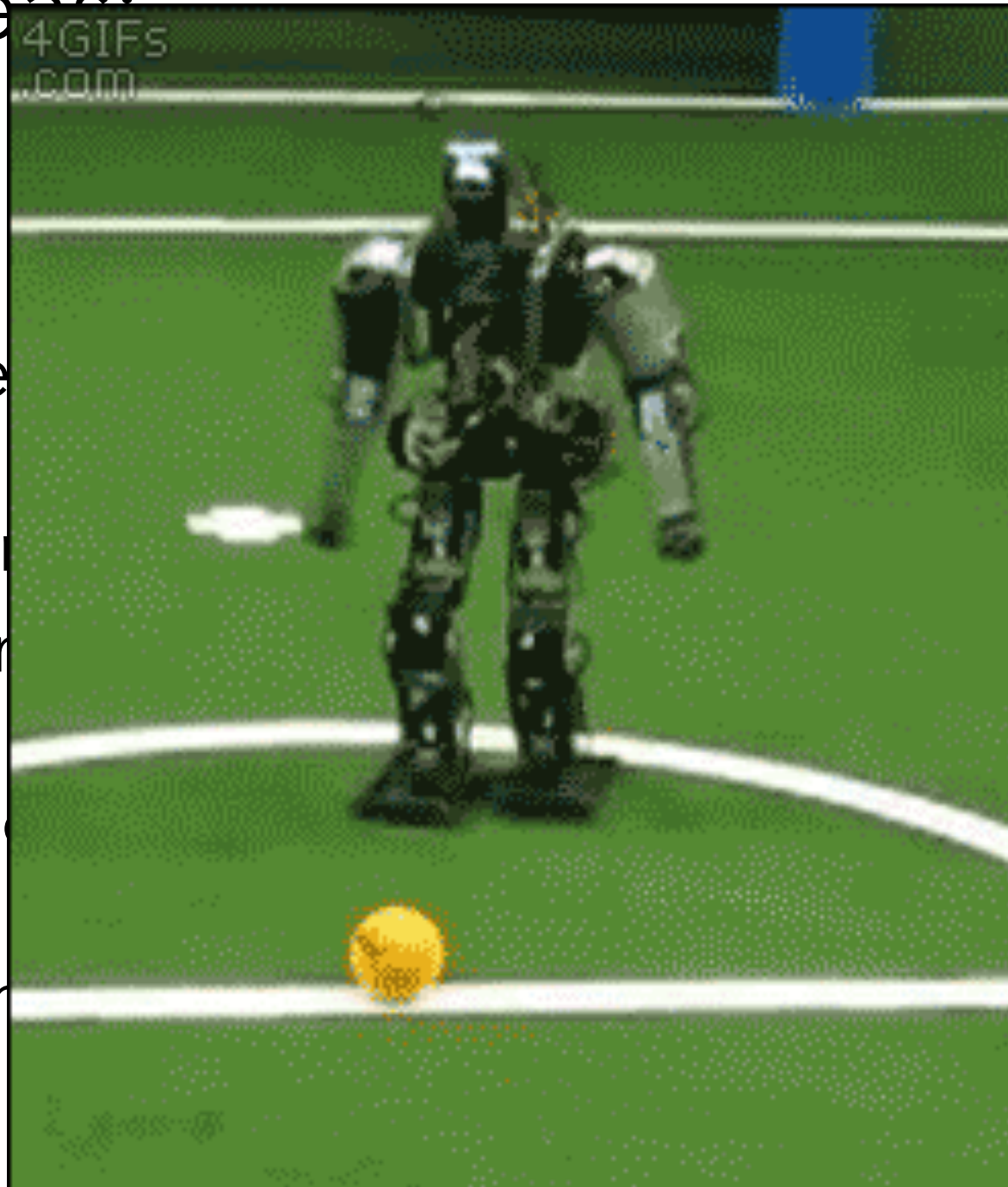
- Get a job

- Automate

- Process of
profession

- Execute y

- Understand
use daily



ary

h your chosen

computers you

- Make friends with our future robot overlords

Who is this character?

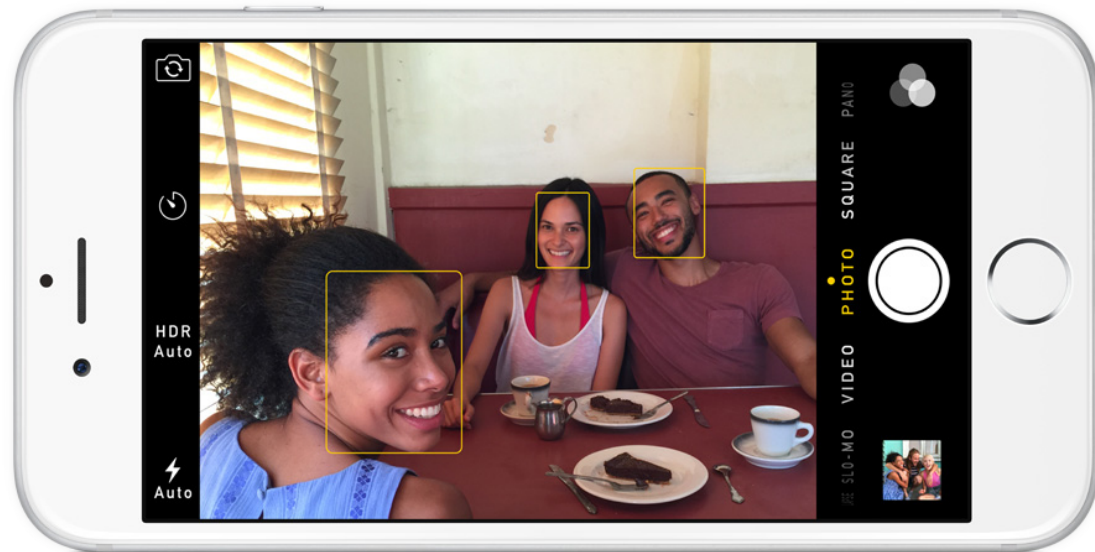
About Me:

Scott Wehrwein

(call me this!)



Computer Vision: Familiar Examples



In-Camera Face Detection



Autonomous Driving



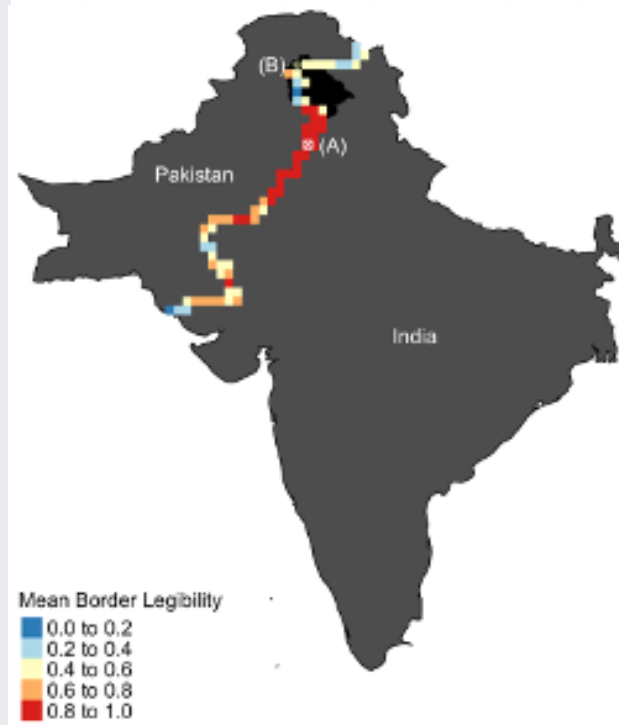
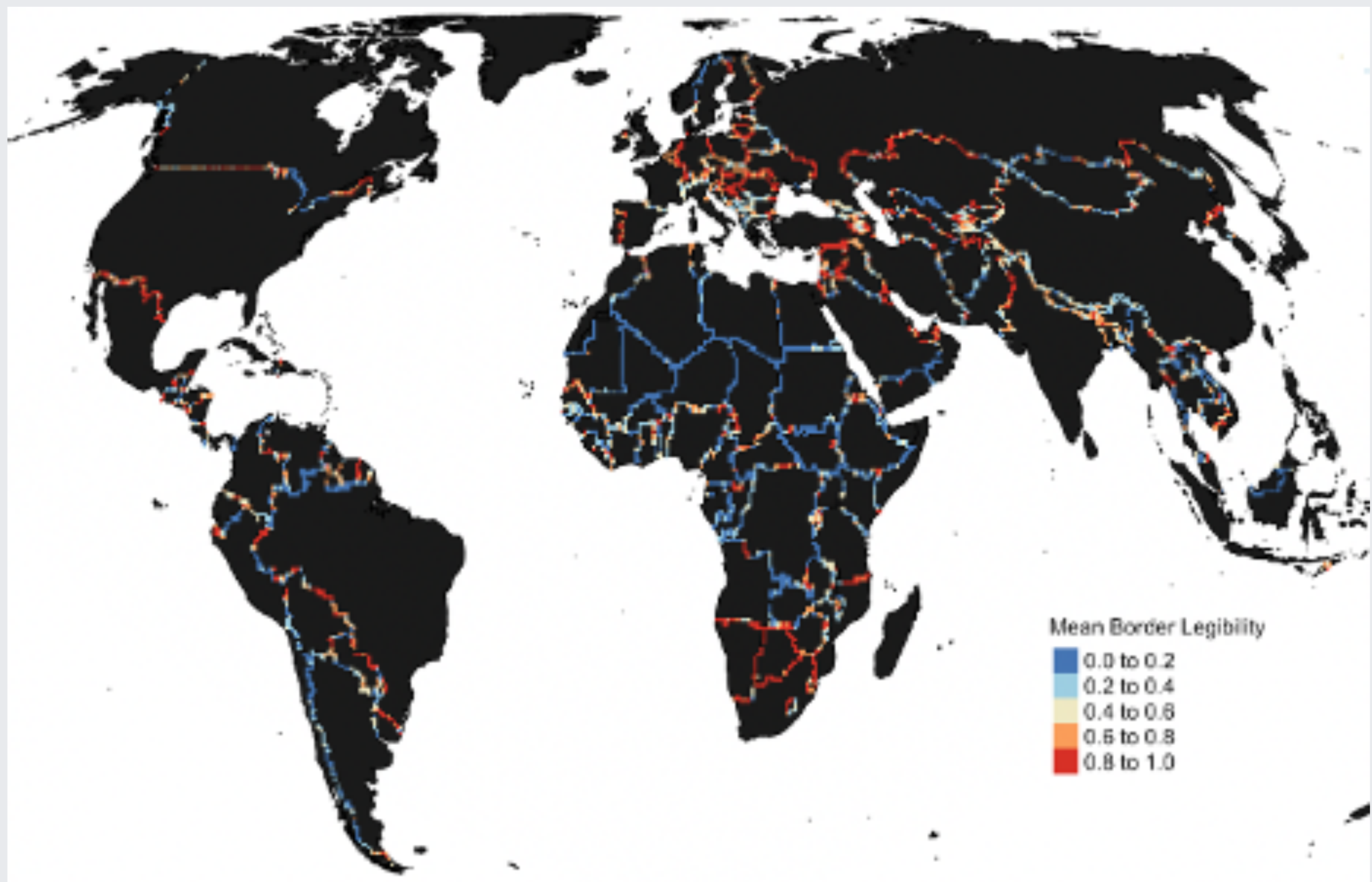
Text-Guided Image Generation



Image Search





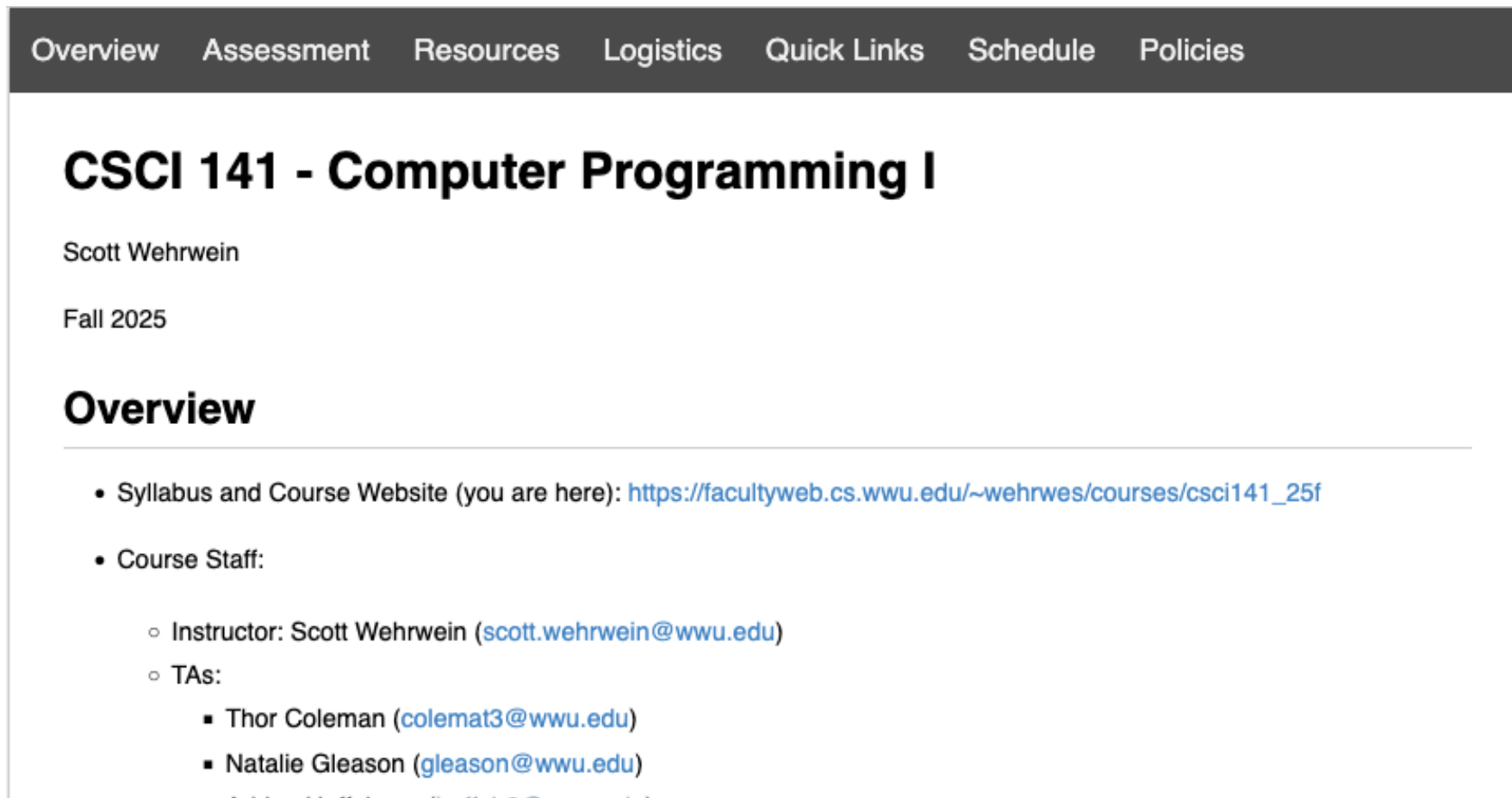


Logistics

The syllabus is [on] the course webpage:

https://facultyweb.cs.wwu.edu/~wehrwes/courses/csci141_25f

This link can also be found on the Syllabus page on Canvas.



The screenshot shows the Canvas LMS interface for the course CSCI 141 - Computer Programming I. At the top is a navigation bar with links: Overview, Assessment, Resources, Logistics, Quick Links, Schedule, and Policies. Below the navigation bar, the course title "CSCI 141 - Computer Programming I" is displayed in large bold text, followed by the instructor's name "Scott Wehrwein" and the semester "Fall 2025". The "Overview" section is highlighted with a horizontal line. Under "Overview", there is a list of items: "Syllabus and Course Website (you are here):" followed by the URL https://facultyweb.cs.wwu.edu/~wehrwes/courses/csci141_25f, and "Course Staff:" followed by a list of staff members: Instructor: Scott Wehrwein (scott.wehrwein@wwu.edu), and TAs: Thor Coleman (colemat3@wwu.edu) and Natalie Gleason (gleason@wwu.edu).

Overview Assessment Resources Logistics Quick Links Schedule Policies

CSCI 141 - Computer Programming I

Scott Wehrwein

Fall 2025

Overview

- Syllabus and Course Website (you are here): https://facultyweb.cs.wwu.edu/~wehrwes/courses/csci141_25f
- Course Staff:
 - Instructor: Scott Wehrwein (scott.wehrwein@wwu.edu)
 - TAs:
 - Thor Coleman (colemat3@wwu.edu)
 - Natalie Gleason (gleason@wwu.edu)

About You Survey

Thanks for filling out the survey!

If you haven't yet, please fill it out - late submissions are accepted.

My Expectations

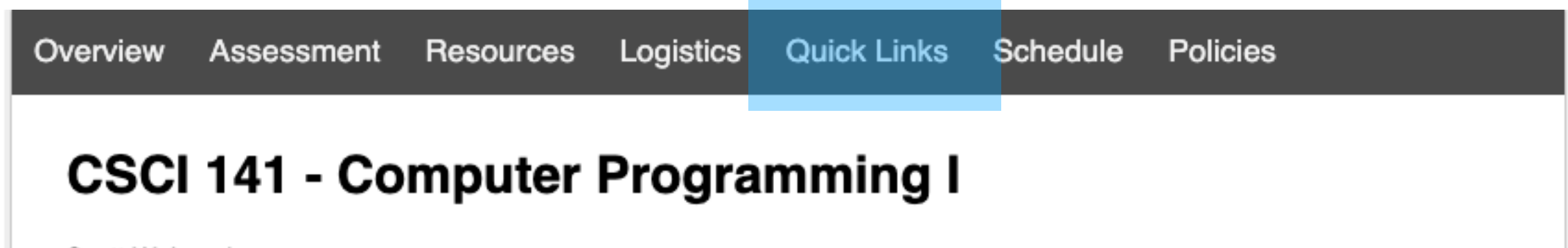
Q4: How many months of programming experience do you have?

0

Some of you have prior experience, but zero is what I will assume.

Syllabus Questions?

Meet your team!



- Arrange yourselves in your teams and introduce yourselves!
- Complete the Syllabus Questions as a team
- Submit your answers using the form linked from Quick Links on the course webpage:

Quick Links

- Course webpage: (you are here): https://facultyweb.cs.wvu.edu/~wehrwes/courses/csci141_25f
- Canvas <https://www.instructure.com/courses/1842808/>
- Team Exercise Submission Form: <https://forms.office.com/r/UwPJSXGME6>
- POTD files: https://github.com/csci141/POTD/tree/2540_wehrwein/skel

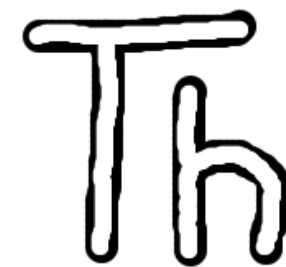
Let's write some code already

- **Python** is our chosen programming language in this course.



- A **programming language** is a language a computer can "understand" and execute (more on what this means next time)

- We'll use a program called **Thonny** to write our Python code.



- Thonny is an example of an "**Integrated Development Environment**" (IDE): a program that provides all the features you need to write, run, and fix errors in programs.

Without further ado...

Hello, world!

Friday - reminder

- **this Friday's class is here in CF110.**
- Future Friday classes will be held in labs:

CRN	Friday class location
40242	CF 162
40243	CF 164
40244	CF 165
40497	CF 167

Hello, world!

- hello.py
- Concepts demonstrated:
 - Basic usage of Thonny
 - Comments
 - The `print` function
 - Single and double quoted strings