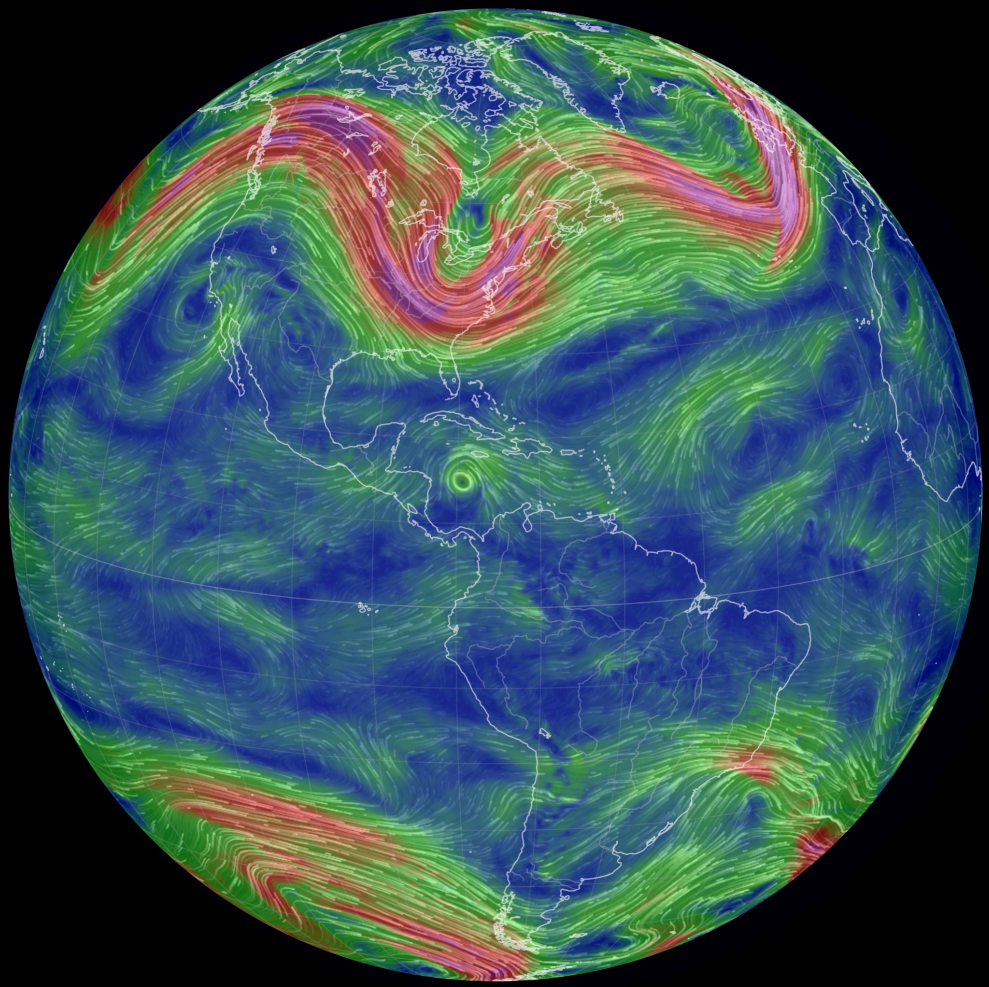
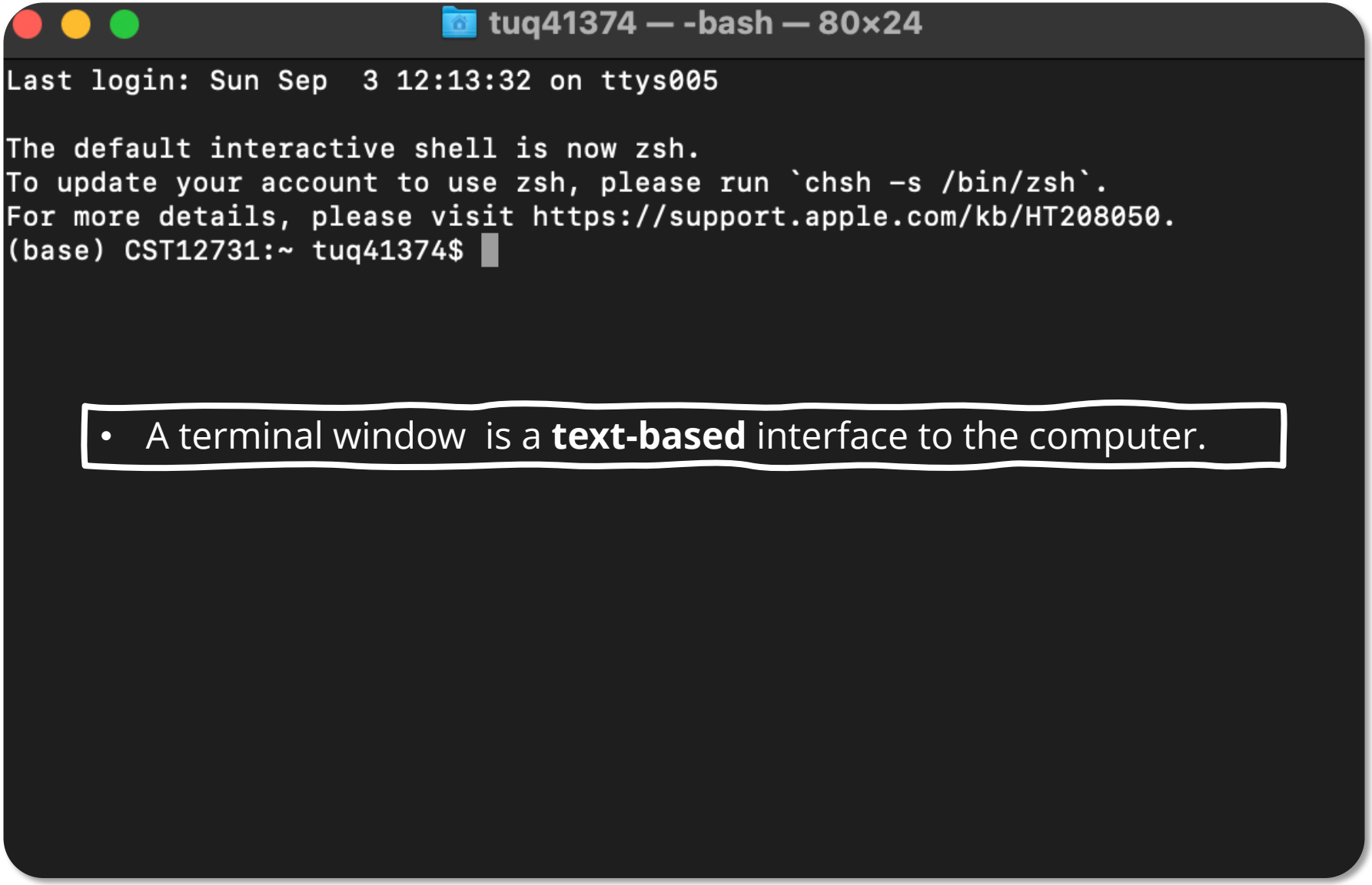
EES 3506 / 5506
Observing and Modeling Climate Change
Fall 2023

Lecture:
TR 9:30 – 10:50 AM, BEURY 304



Instructor:
Dr. Becki Beadling (she/hers)
rebecca.beadling@temple.edu
315A BEURY Hall
Office hours: Wednesday 1 – 3 pm

Introduction to the Command-line Interface (CLI) / Terminal / Command Prompt / the ”shell” / `$ bash`



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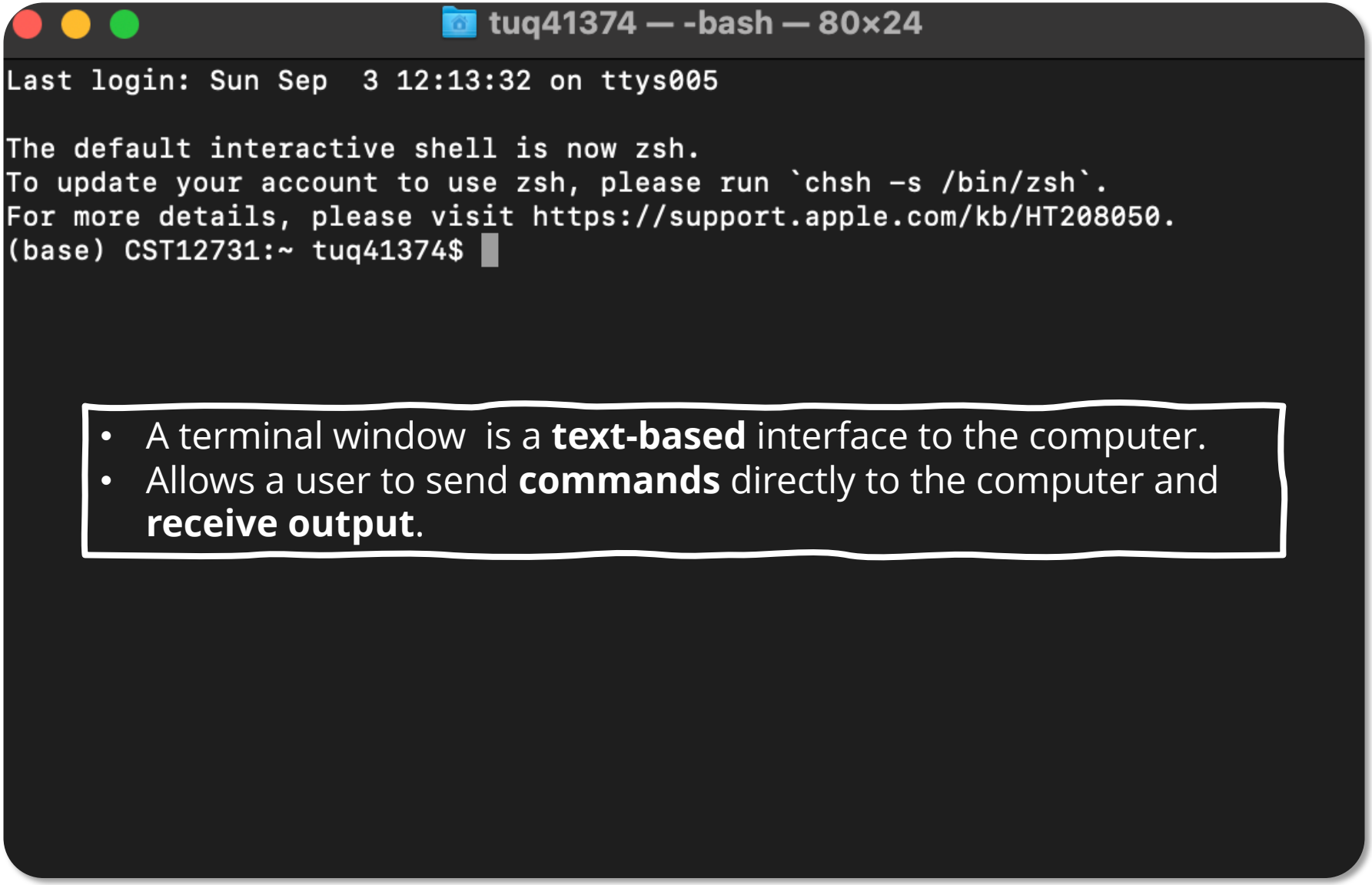

- A terminal window is a **text-based** interface to the computer.
- Allows a user to send **commands** directly to the computer and **receive output**.

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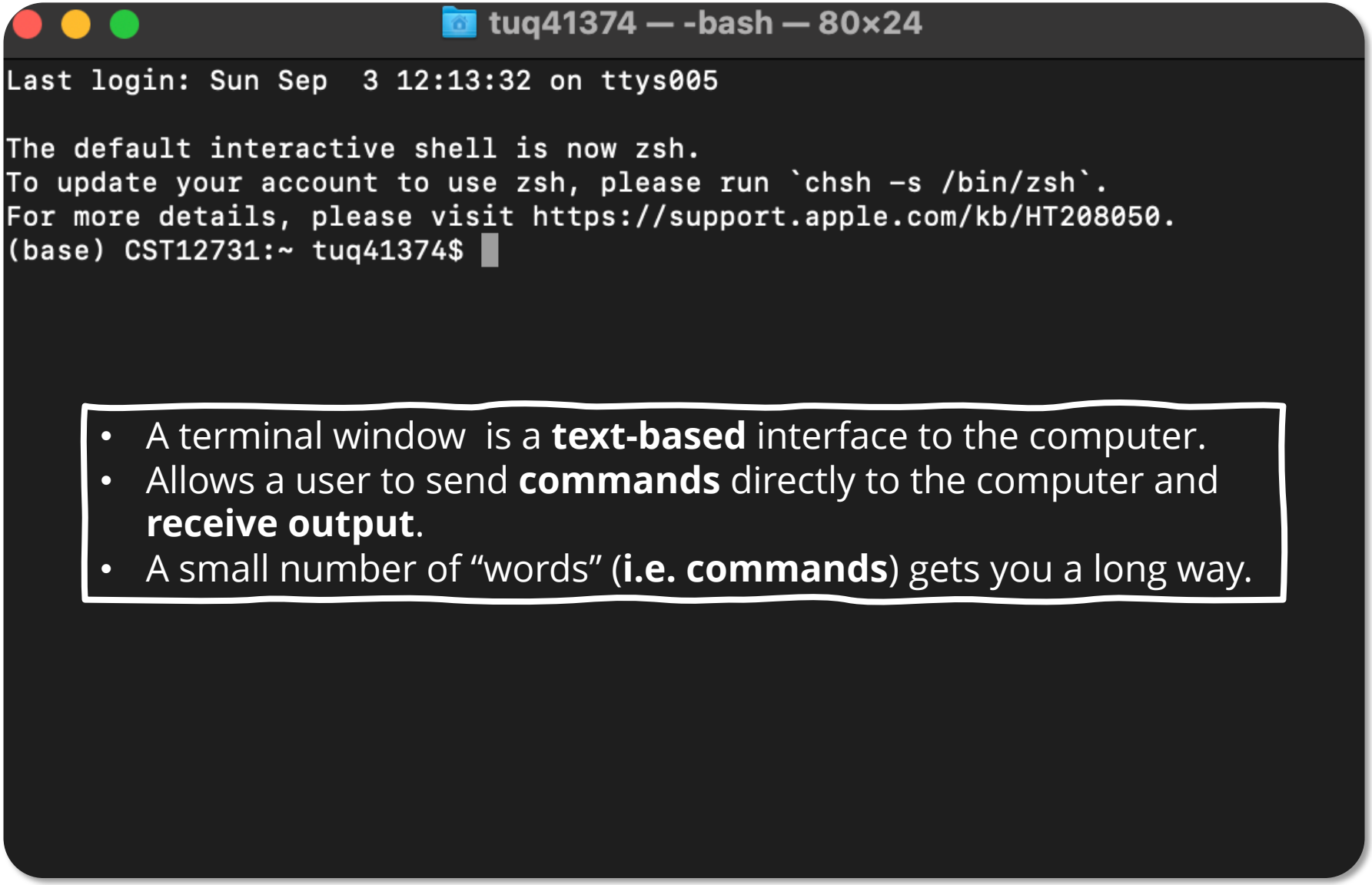

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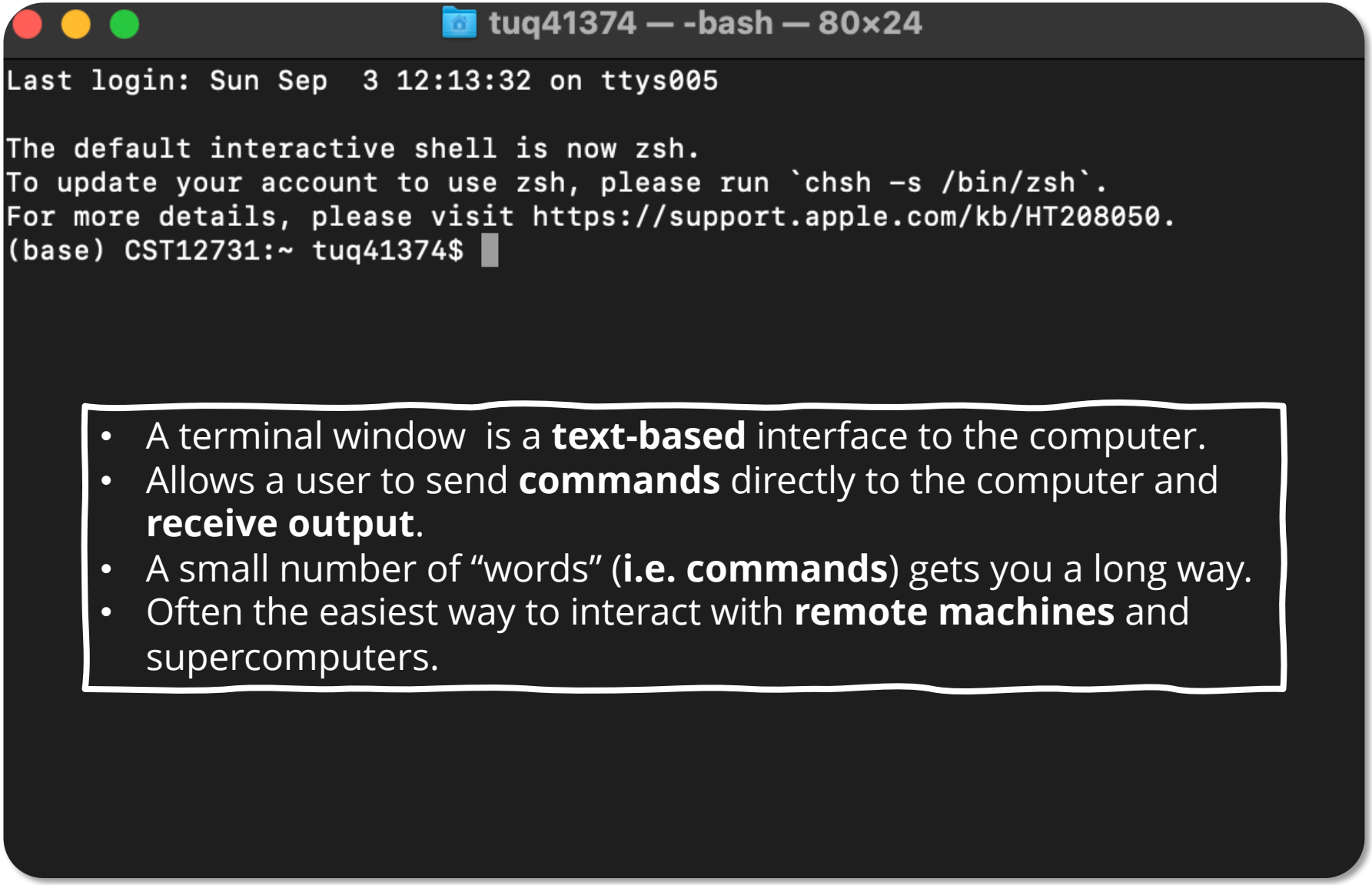

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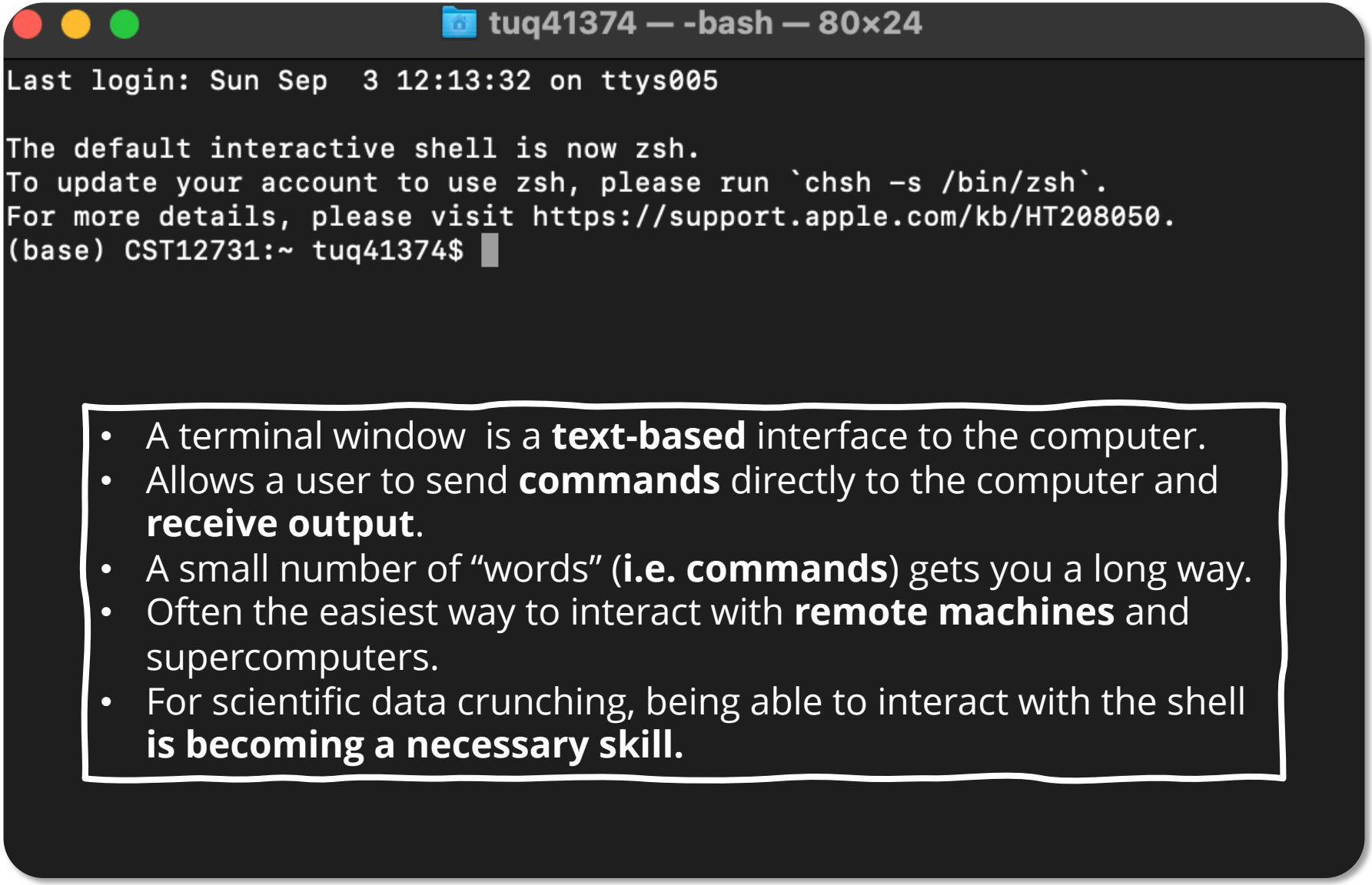

- A terminal window is a **text-based** interface to the computer.
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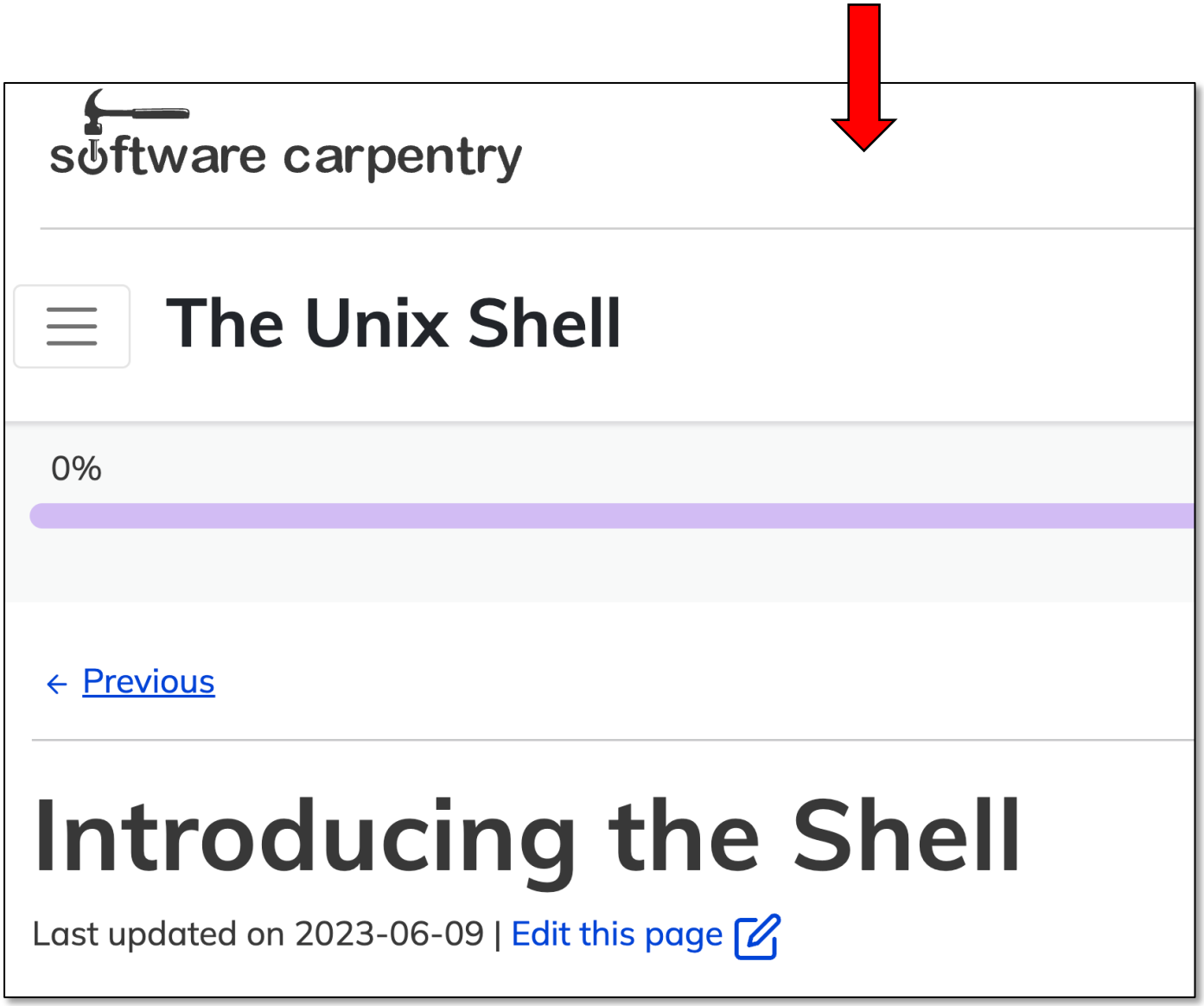
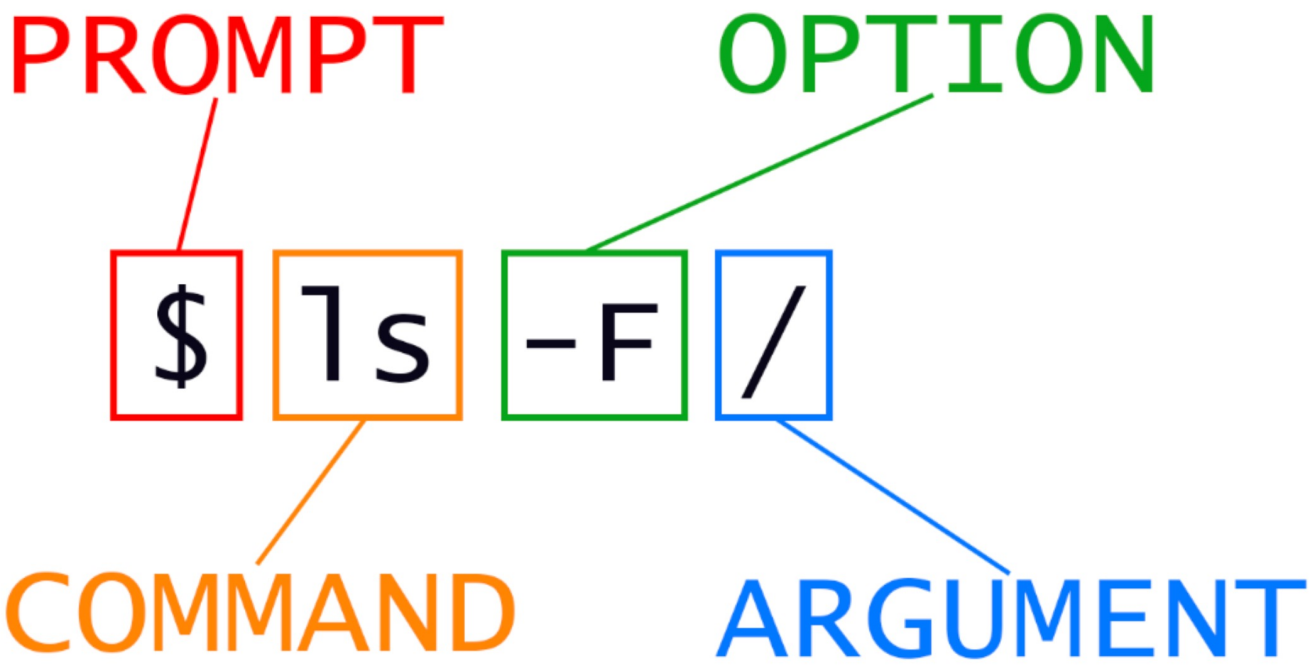
- A small number of “words” (**i.e. commands**) gets you a long way.
- Often the easiest way to interact with **remote machines** and supercomputers.
- For scientific data crunching, being able to interact with the shell **is becoming a necessary skill.**

Follow along interactively, what we are working through is based on the Software Carpentry Unix Shell Tutorial



Chapter 3: Navigating the command line interface (CLI)

Unix Command Line “Cheat Sheet”.



After running the following commands, Jamie realizes that she put the files sucrose.dat and maltose.dat into the wrong folder. Find these files in your repository and move them into the raw folder.

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Go into the north_pacific_gyre folder and list all the files that end with a .txt. Use the * wildcard to do so.

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Go into the north_pacific_gyre folder and list all the files that end with a .txt. Use the * wildcard to do so.

Move your Unit_1 Git repo into the unit_repos directory that resides in your home directory.

Assignment 2: Unix Command Line & GitHub
Uploaded as a single PDF to Canvas

Insert the commands you enter and the corresponding output for the following tasks in the space below each one (directly copy & paste from your terminal window):

1. Navigate to your ees3506_5506_unit1_lastname directory:

2. Print the path to the current directory you are in:

3. List the files in your current directory:

4. Create a directory called “assignments” and confirm that this directory exists:

5. Change directories and descend into your newly created assignments directory:

To do:

- [x] Practice navigating your VM via your new understanding of command line syntax.
- [x] Complete Reading 3 prior to next class.
- [x] Assignment 2 due at 11:59 PM on Thurs 09/07.

09/05 (Tues)	Unix Tutorial & GitHub	Reading 2	
09/07 (Thurs)	Check-in & de-brief: ***issues, challenges, curiosities, and excitement!*** Python Fundamentals A & B	Reading 3	Assign. 2 [11:59 PM]
	Python Fundamentals A & B .... continued	Reading 4	
	Working with 1 - D datasets: Intro to Pandas & Matplotlib	Reading 5	

Reading 3: Python Fundamentals A

Reading / lecture viewing assignments are expected to be completed by the due date listed on the course schedule.

This week in class we will be working through the *bare minimum* of Python that you should understand to work with the datasets we will be working with in class. We will work through interactive Jupyter Notebooks in class, but you are expected to come to class having read and interacted with the following material. We will not be covering everything that is covered in these readings in class, but it is good to be aware of (and aware that these resources exist!).

- Python Intro
- Python Syntax
- Python Comments
- Python Variables
- Python Data Types
- Python Numbers
- Python Strings
- Python Booleans
- Python Operators
- Python Lists
- Python List Access
- Indexing Video
- Python Tuples
- Python Dictionaries

Up Next:

Python Fundamentals A

(In class activities! Don't miss it!**)**

Come to office hours if you are struggling navigating the command line / using git