

CompSci 101

Introduction

Live Lecture

CompSci 101 Calendar

[Home](#) [About](#) [Dates](#) [Labs](#) [Assign](#) [APTs](#) [Help](#) [Forms](#) [Resources](#) [Piazza](#) [Sakai](#)

All materials we use in class are accessible via this page.

[Information about grading and course logistics.](#)

January 18-22 Week

	Monday	Tuesday	Wednesday	Thursday	Friday
PRE-WORK	1/18 MLK Day	1/19	1/20	1/21 Introduction Video 1 Video 2 Video 3 No Reading Quiz (RQ)	1/22
LECTURE LAB				First Lecture Links <ul style="list-style-type: none">• Link 0• Link 1• Link 2	Lab 0
ASSIGNMENTS APTS DUE				Assign 0 out	

Susan Rodger
Nicki Washington
January 21, 2021

Sea turtles hatching

- <https://www.youtube.com/watch?v=sZYd0-egqbc>



CompSci 101 Professors



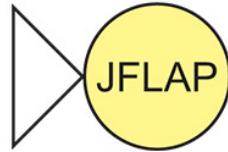
Prof. Nicki Washington



Prof. Susan Rodger



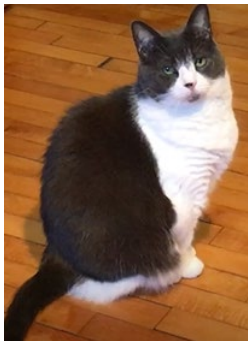
About Prof. Rodger



- PhD Computer Science, Purdue
- BS CS and Math, NCSU
- Research in Computer Science Education
 - build tools to help learn computer science
 - Integrate computing into K12



Fun things About Prof. Rodger



How do you keep your sanity?

1/21/20

Compsci 101, Spring 2021



What you will be able to do: Process files

President Biden's Inauguration Speech transcript

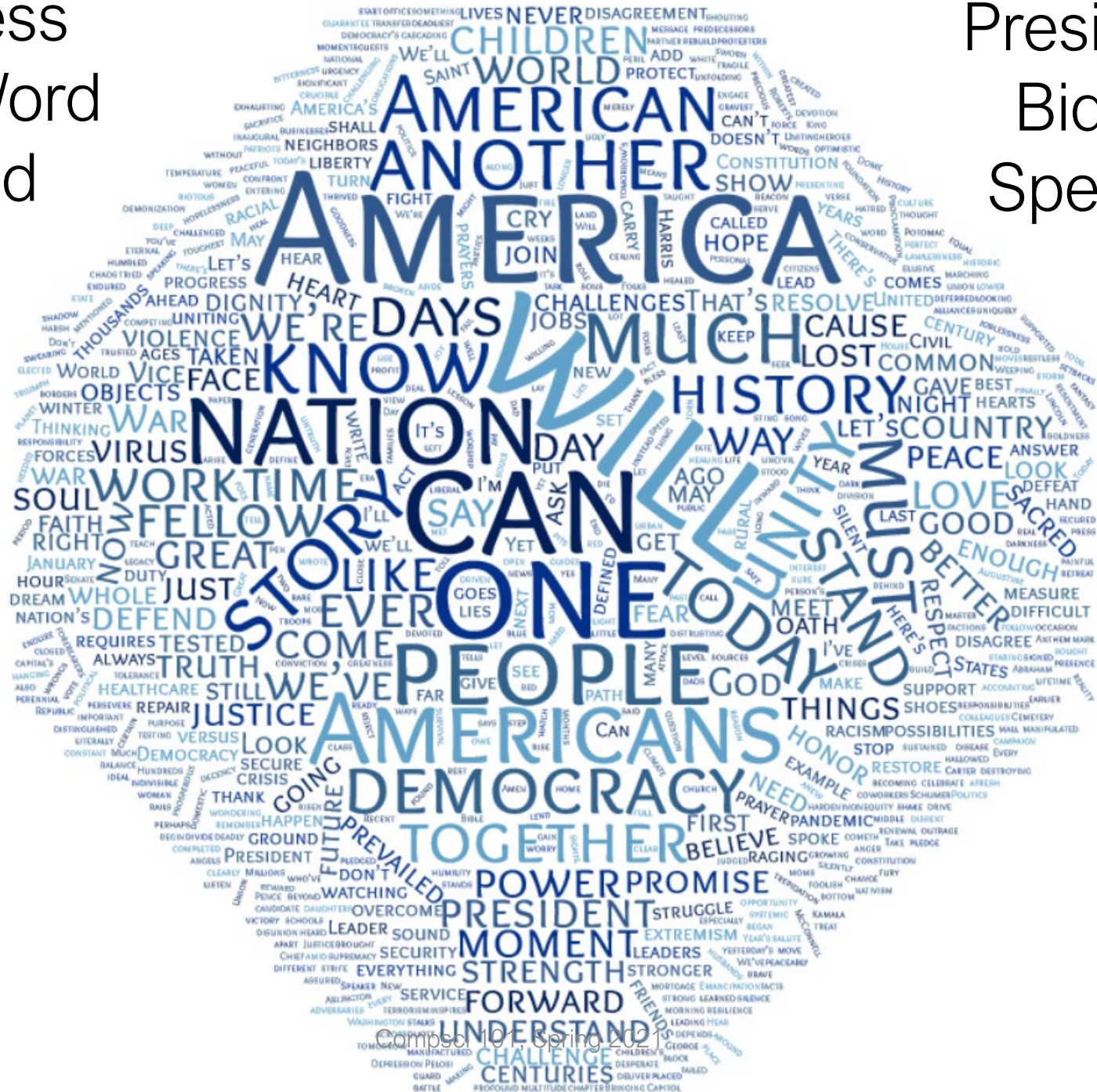
Chief Justice Roberts, Vice President Harris. Speaker Pelosi, Leader Schumer, McConnell, Vice President Pence, my distinguished guests and my fellow Americans, this is America's day.

This is democracy's day. A day of history and hope of renewal and resolve through a crucible for the ages. America has been tested anew and America has risen to the challenge. Today, we celebrate the triumph not of a candidate, but of a cause, the cause of democracy. The people, the will of the people, has been heard and the will of the people has been heeded.

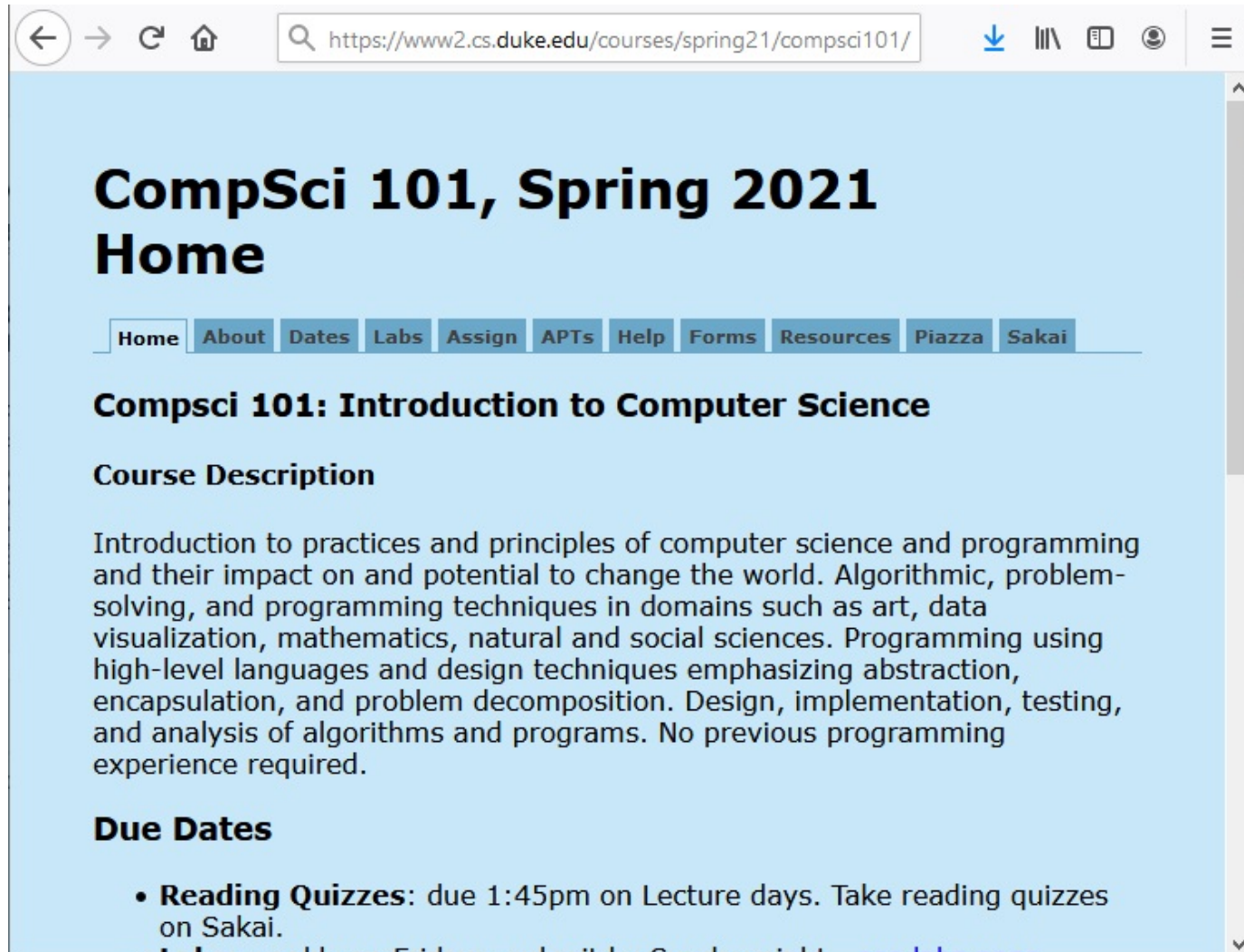
We've learned again that democracy is precious. Democracy is fragile. At this hour, my friends, democracy has prevailed.

Process files: Word Cloud

President Biden Speech



Go over CompSci 101 webpages



The screenshot shows a web browser window with the URL <https://www2.cs.duke.edu/courses/spring21/compsci101/>. The page has a light blue background and features a navigation bar with links: Home, About, Dates, Labs, Assign, APTs, Help, Forms, Resources, Piazza, and Sakai. The main heading is "CompSci 101, Spring 2021 Home". Below the navigation bar, the page title is "Compsci 101: Introduction to Computer Science". The "Course Description" section states: "Introduction to practices and principles of computer science and programming and their impact on and potential to change the world. Algorithmic, problem-solving, and programming techniques in domains such as art, data visualization, mathematics, natural and social sciences. Programming using high-level languages and design techniques emphasizing abstraction, encapsulation, and problem decomposition. Design, implementation, testing, and analysis of algorithms and programs. No previous programming experience required." The "Due Dates" section lists: "• Reading Quizzes: due 1:45pm on Lecture days. Take reading quizzes on Sakai." and "• Labs weekly on Fridays, submit by Sunday night - see lab page".

CompSci 101, Spring 2021 Home

[Home](#) [About](#) [Dates](#) [Labs](#) [Assign](#) [APTs](#) [Help](#) [Forms](#) [Resources](#) [Piazza](#) [Sakai](#)

Compsci 101: Introduction to Computer Science

Course Description

Introduction to practices and principles of computer science and programming and their impact on and potential to change the world. Algorithmic, problem-solving, and programming techniques in domains such as art, data visualization, mathematics, natural and social sciences. Programming using high-level languages and design techniques emphasizing abstraction, encapsulation, and problem decomposition. Design, implementation, testing, and analysis of algorithms and programs. No previous programming experience required.

Due Dates

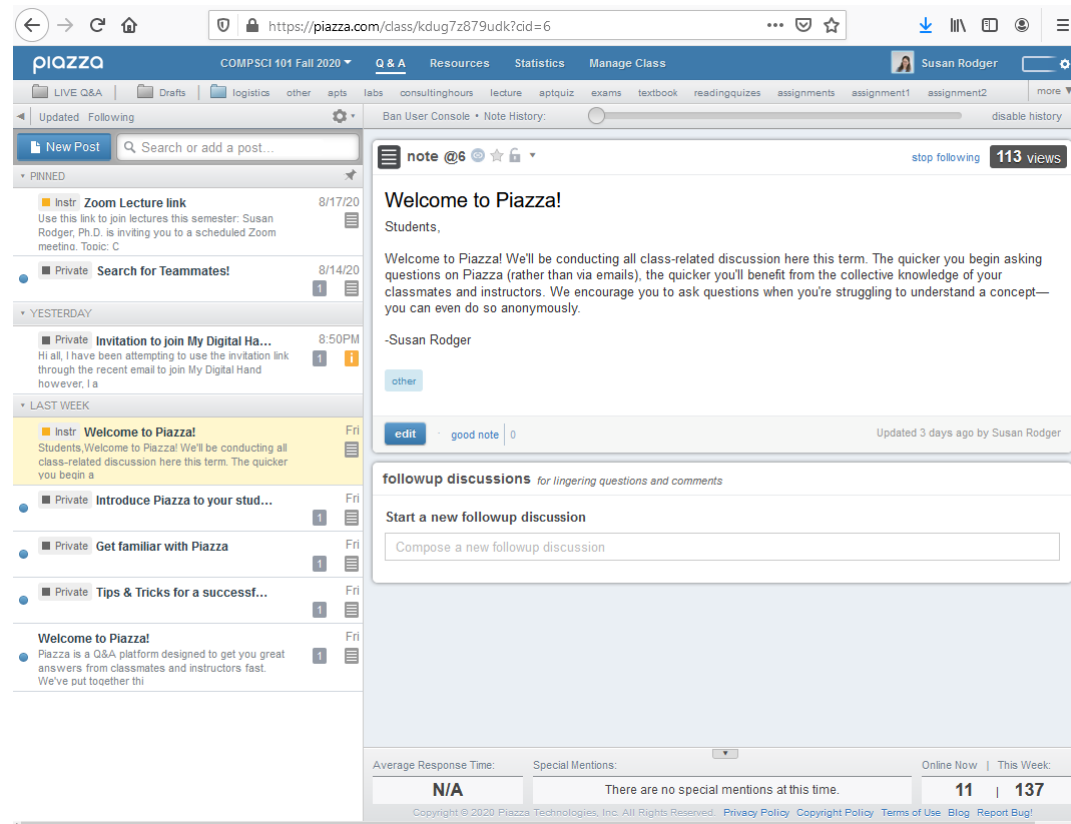
- **Reading Quizzes:** due 1:45pm on Lecture days. Take reading quizzes on Sakai.
- **Labs** weekly on Fridays, submit by Sunday night - see lab page

What will this course be like?

- **Practice programming a lot!**
 - You will write code all the time!
 - In the online textbook – code boxes
 - Small and large assignments due!
 - Weekly labs
- **Important to stay caught up**
- **Lots of help along the way:**
 - Consulting hours: UTAs
 - Office hours: Professors, Grad TAs
 - Piazza – post anonymous questions

Questions?

- Don't send us email!!!!!!!!!!!!!!
- Post your questions on Piazza
 - We will answer them there!
 - You should try to answer them too
 - Want to be a UTA one day? Answer questions!



WOTO1: What is Computer Science?

<http://bit.ly/101s21-0121-1>

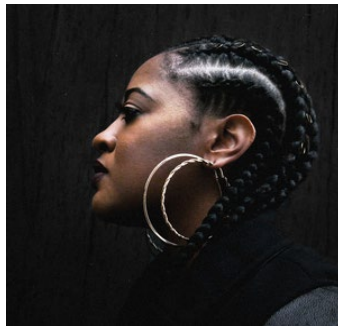
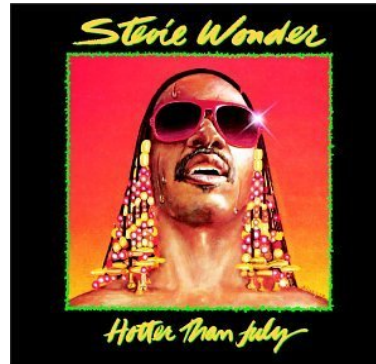
- What is WOTO?
 - Working Together
 - Breakout room – random groups
 - Introduce yourself, discuss and answer questions together
 - Each person fills out a WOTO form
 - Include email, name and netid

About Prof. Washington



- MS & PhD Computer Science, NCSU
- BS Johnson C. Smith University
- Durham, NC native
- Research
 - Identity in computing
 - Race, gender, sexuality, ability, class

Things Prof. Washington Enjoys



Who are you?

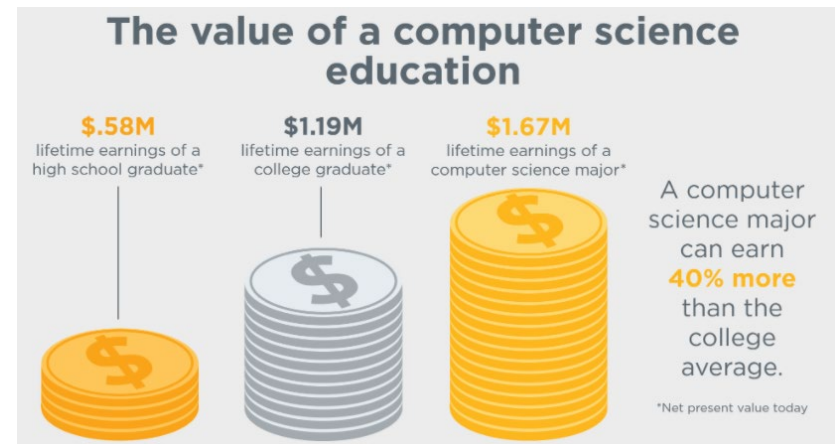
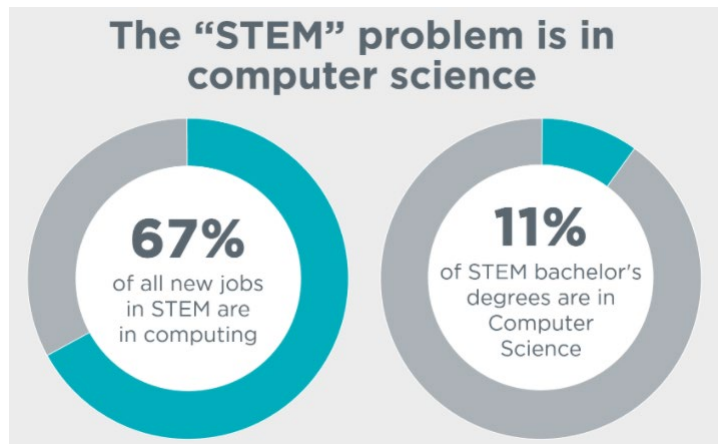
- Who's enrolled in Compsci 101 this semester?
 - Do you recognize yourself?
 - Is there a stereotypical Compsci 101 student?
 - Is there a stereotypical computer scientist?
- You DO NOT need prior programming experience to succeed!!

WOTO2: bit.ly/101s21-0121-2

- Can you find an example of CS in each of these industries?
 1. Music
 2. Healthcare
 3. Sports
 4. Arts

There's still a long way to go

Source: Code.org





- "Hello World"
- Scratch Program
- Colors
 - Duke blue: motion
 - Mustard: control
 - Light blue: sensing
 - Orange: data
 - Purple: looks

WOTO3:

<http://bit.ly/101s21-0121-3>

Analyze this Scratch
Program?

Scratch Program

- If you want to experiment with this scratch program, here is the link:

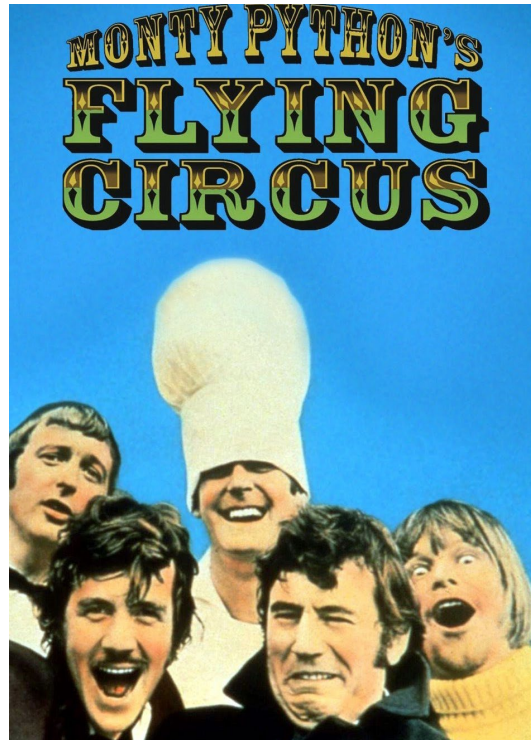
<https://scratch.mit.edu/projects/472644306>

Why is it called Python?

Guido van Rossum



A: Monty Python show



B: Python snake



Questions?