



CS196

Welcome

How to get a 100



Overview

What really is CS196?

Projects

Core of 196

microlessons

Python Basics

Industry Lectures

Subfields of Computer Science

Hackerspaces

Mobile Dev

Web Dev

Data Science

Homework

Fundamentals

Interview Prep

Events

Flight 196

Hackathons

Midterm

There will be one midterm and will cover all Python lessons taught in the first half of the semester.

The official date and time are TBD.

Office Hours

Hackerspace

Twice a week

Grading

Category	Weight
Participation	5%
Midterm	15%
Project	45%
HW	20%
Hackerspace	15%

Academic Integrity

Rule of Thumb:

If at any point you submit an assignment that does not reflect your understanding of the material, then you have probably cheated.

- CS 241

Registration

Registration for CS196 will open on
UIUC Enterprise Self-Service at
Wednesday 10 am.*

*It was supposed to open at 9 pm today but
got rescheduled.

Project Examples

Hackerspaces



CS196

Mobile Hackerspace

Hello, World!



Purpose

Mobile Hackerspace is made to give you the opportunity to make your own Android apps.

Benefits

Being able to make your own app is a great skill. You can design small apps that have use to you and others in your everyday lives.

What You'll Do

By the end of the hackerspace, you will have made your own app of your design for an Android device.

App Examples

- Personal password manager
- Soundboard
- Tic-Tac-Toe
- Notes

Time

Mobile Hackerspace will meet on
Wednesdays at 7pm.

Goodbye!





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Web Hackerspace

How the Web Works

HTTP: Requests, Responses,
Protocols

Client side vs server side
programming

Web App Design

HTML, CSS, JS

MVC

Reactive Designs

FrameWorks

Flask

React

Project

Design

Web Application

Backend

Tutorials

Movie Rating Website

To Do List

Music Search Engine

Final Project

Thursday
7pm

WEB DEVELOPERS



WHAT MY FRIENDS
THINK I DO



WHAT MY MOM
THINKS I DO



WHAT SOCIETY
THINKS I DO



WHAT OUR CLIENTS
THINK WE DO



WHAT I
THINK I DO



WHAT WE
REALLY DO

zach nicodemous



CS196

Data Science



Hey there, We're

Tyler Kim

@tyler_thetyrant

and

Ben Congdon

@bcongdon





DATA

Data Scientist: The Sexiest Job of the 21st Century

by Thomas H. Davenport and D.J. Patil

FROM THE OCTOBER 2012 ISSUE

Data Scientist?



(((Josh Wills)))

@josh_wills



Follow

Data Scientist (n.): Person who is better at statistics than any software engineer and better at software engineering than any statistician.

RETWEETS

1,486

LIKES

1,015



8:55 AM - 3 May 2012



1.5K



1K

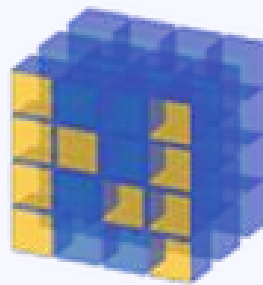
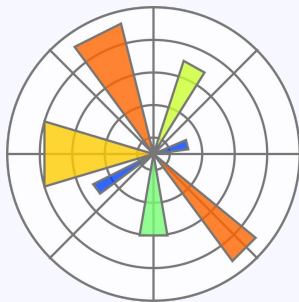
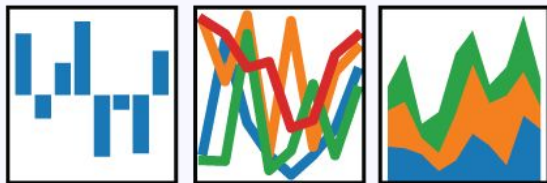


Data Science Hackerspace?

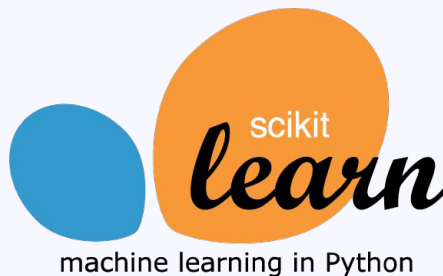
- ❏ Data Visualization
- ❏ Data Mining
- ❏ Numpy / Pandas
- ❏ Web Scraping
- ❏ **Basic** Machine Learning

pandas

$$y_{it} = \beta' x_{it} + \mu_i + \epsilon_{it}$$



CONDA®



PyData



pythonTM

(Cool) Demo!

For students,
by students



<https://goo.gl/1MnZvm>

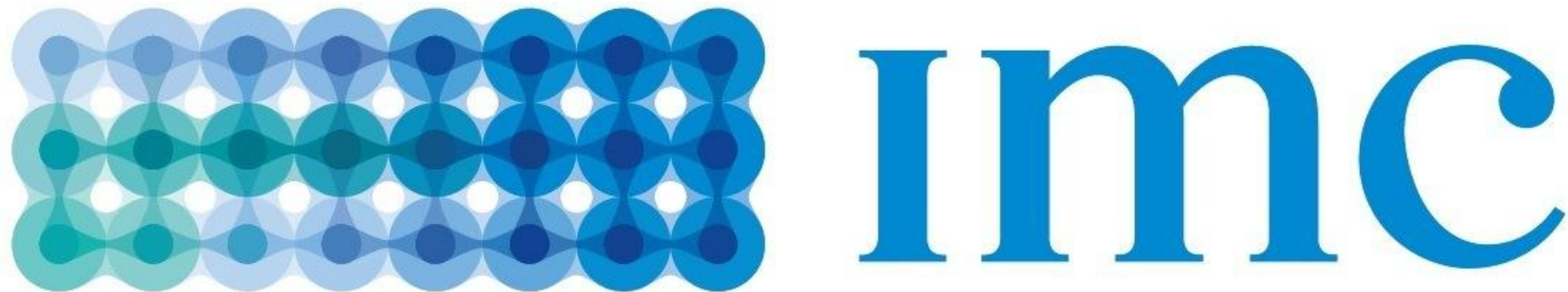


Flight 196

Saturday, September 2nd

11am-3pm

Siebel 1404



Top sponsor of CS 196