Administrivia

Geometric Algorithms Lecture 0

What is this course?

```
linear algebra for computer science
linear algebra with a data science bent
linear algebra + numpy, scipy, etc.
preparation for ML, data science, graphics,...
not geometric algorithms in the traditional sense
```

see course schedule for full details

Why are we doing this?

(this is what we signed up for)

```
geometric thinking is fundamental
  >> nearest neighbors
  >> separating hyperplanes
<u>linear algebra is fundamental</u>
  >> PageRank
  >> SVD
  >> neural networks, support vector machines, convolution
```

How is this course run?

material is on the course website
discussion + announcements are on Piazza
submission + grading is on Gradescope

homework is released Thursday, due following **Thursday at 2PM** slides are released before lecture sections are for reviewing homework solutions and course material (more info during your first section)

What's the workload?

```
(it's a fair amount, but hopefully still fair)
   lectures/week
   section/week
   assignment/week (12 total, graded on top 10)
   midterm
    final
   Google form/week
```

How are we graded?

50% assignments

20% midterms

25% final

05% participation

What is participation?

```
I don't take attendance
you'll report your attendance in the weekly
Google form
it's strongly advised you come to class
it's an easy way to get some points if you're
struggling with the material
```

Anything to say about academic dishonesty?

```
don't do it
don't ask for or give solutions in any scenario
answer receiver and answer giver are equally
culpable
cite your sources (see course guidelines page)
remember: you can drop assignments, and you will
have to do this stuff on exams
we take this seriously
```

What if I'm stuck on a homework problem?

- 1. ask a question on Piazza
 - >> more general questions are better
 - >> "where should I start" as a last resort
- 2. go to office hours
- 3. send me an email if you're struggling

Anything else?

please contact me as soon as possible if you need disability accommodations

read and understand all course and university guidelines

don't hesitate to suggest how to make this course better

Statistics

```
240 students (120/section)
8 sections (Mondays)
13 course staff members (me, 2 TFs, 2 TAs, 8 CAs)
25 hrs/week office hours
```

Lastly...

we are human
it's important to meet people where they are
we are here to help you succeed
we take this seriously

(also, I'm sure I missed something. Ask questions!)