Outline: 10/19

- Lab 5
- Homework 4 demos
- Start: 3D

For midterm: one double-sided “cheat sheet”

- **HW 5**: due Monday Oct 24
- **Monday**: midterm review
- **Wednesday**: special topic
How to study for the Midterm

- Practice problems! Especially the previous midterm, try to take it as an exam
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- Make sure you understand ALL labs and homeworks, try them again, don’t just look at the solution
How to study for the Midterm

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- Class on Monday: review session with more problems.
- Make sure you understand **ALL** labs and homeworks, try them again, don’t just look at the solution.
- Go over all slides and board photos and make sure they make sense, create your cheat sheet as you go.
Homework 4 Demos
3D graphics

- Just add a z? \( p=(x,y) \), now \( p=(x,y,z) \)?
3D graphics

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- But we still need to view in 2D!
3D graphics

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- Want: $p=(x,y,z)$ in the “world coordinates” to be transformed into a 2D $p'=(x',y')$
Coordinate Systems

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- **Model or object coordinates**: with respect to each object (choose origin to be the center of each object)
Projection
Orthographic Projection
Perspective Projection: Frustum
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