

Group 12: Final Project Proposal

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❖ Schedule

- 5 week plan:
 - Week 1: Get familiar with relevant libraries, and learn how to use OpenGL more effectively.
 - Week 2: Work on character models and textures.
 - Week 3: Work on controls.
 - Week 4: Work on gameplay mechanics.
 - Week 5: Work on a demo level design.
- With this plan, we can have enough time to not only complete the game, but we will also have a few spare weeks to polish the game and figure out any problems we may encounter.
- Since group members have different tasks, they should practice/work on their own tasks on the weeks that don't focus on their own tasks.

❖ Plan

- Tier 1: Doesn't build/compile.
- Tier 2: Has basic game structures but isn't playable.
- Tier 3: Game is sort of playable with a few bugs.
- Tier 4: Completed playable game.

❖ Roles and proposed tasks

- Bhavya Gokana - textures, interactivity, game mechanics.
- Omar Badran - camera movement and 3D transformations, website (tentative).
- Jeffrey Cordes - Project manager, collision detection, music/sound.
- Brandon Hernandez - lights, game AI, level design.

❖ Backup Plan/Risks

- We are limited by our lack of knowledge on OpenGL; however, there's nothing a few tutorials online can't fix.
- If we're unable to have a fully polished game, we'll aim to have a playable game by the very least.
- We might have to opt for making a less impressive game, if we get really desperate.

❖ Design Document

- Name of the game: Pac-Man 3D (tentative).
- Gameplay: similar to old school pacman. A maze type game where you collect points, while trying to avoid the ghost(s) AI!
- Collect pellets for points and level completion.
- Collect power pellets to be able to temporarily eat ghosts and gain invincibility.
- Coming into contact with a ghost normally will cause the player to lose a life until they are out of lives in which case they will trigger a Game Over state.