

# Final Project Demo

## INTRODUCTION TO PROGRAMMING II

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# List of Classes

- Map
  - *enum* Directions
- Pacman
- Ghost
  - *enum* GhostStatus
  - GhostRed
  - GhostBlue
  - GhostPink
  - GhostOrange
- Scene
  - SceneMenu
    - Button
  - SceneSetting
  - SceneMain
  - SceneEnd

## Map

- wallnum : int
- beansCcount : int
- + row\_num : int
- + col\_num : int
- + beansNum : int
- + map : char \*\*

- draw\_cherry(int, int) : void
- draw\_strawberry(int, int) : void
- draw\_block\_index(int, int) : void
- draw\_bean(int, int) : void
- draw\_power\_bean(int, int) : void
- + Map(char \*)
- + ~Map()
- + draw() : void
- + shortest\_path\_direc(int, int, int, int) : Directions
- + is\_wall\_block(int, int) : bool
- + is\_room\_block(int, int) : bool
- + is\_wall\_point(float, float) : bool
- + is\_room\_point(float, float) : bool

## Pacman

- imgdata : bitmapdata
- color : int
- powerUp : bool
- move\_sprite : ALLEGRO\_BITMAP \*
- die\_sprite : ALLEGRO\_BITMAP \*
- + objData : object
- + speed : int
- + death\_anim\_counter : ALLEGRO\_TIMER \*

  

- movable(Map \*, Directions) : bool
- + Pacman()
- + ~Pacman()
- + draw() : void
- + move(Map \*) : void
- + eatItem(char) : void
- + NextMove(Directions) : void
- + die() : void



