# TODO:

1. Add free life after 10000 pts (check to make sure) and add free life sound.
2. Make high score persistent.
3. Polish game to make sure major bugs are squashed and difficulty tweaked depending on level.
4. Put volume back to 100%.
5. ========================== Bugs ===============================================
6. Died and spawned again and able to continue game with ghost not visible.
7. ========================== Possible Extra Features ================================
8. Add intermissions that happen at various level.
9. Have ghost pause inside box when pac-man eats ghost.
10. Add music when frightened and blinking.
11. Add play through video to the start screen.

28 x 31 grid (going by pellets but also including outside walls).

Player should move (slide) .32 to reach next square up or down, left or right.

For reference:

<https://www.youtube.com/watch?v=dScq4P5gn4A>

Scoring Reference:

<http://pacman.wikia.com/wiki/Pac-Man_(game)>

Ghost behavior:

http://gameinternals.com/post/2072558330/understanding-pac-man-ghost-behavior

1. Scatter for 7 seconds, then Chase for 20 seconds.
2. Scatter for 7 seconds, then Chase for 20 seconds.
3. Scatter for 5 seconds, then Chase for 20 seconds.
4. Scatter for 5 seconds, then switch to Chase mode permanently.

Ghost points when eaten: 200, 400, 800, 1600

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| http://pacmanmuseum.com/history/_picts/ICONS/cherry.gif | The cherry is worth 100 points. It appears during the first level of game play |
| http://pacmanmuseum.com/history/_picts/ICONS/strawberry.gif | The strawberry is worth 300 points. It appears during the second level of game play |
| http://pacmanmuseum.com/history/_picts/ICONS/orange.gif | The orange is worth 500 points. It appears during the third and fourth level of game play |
| http://pacmanmuseum.com/history/_picts/ICONS/apple.gif | The apple is worth 700 points. It appears during the fifth and sixth level of game play |
| http://pacmanmuseum.com/history/_picts/ICONS/pineapple.gif | The pineapple is worth 1,000 points. It appears during the seventh and eighth level of game play |
| http://pacmanmuseum.com/history/_picts/ICONS/spaceship.gif | The Galaxian spaceship is worth 2,000 points. It appears during the ninth and tenth level of game play |
| http://pacmanmuseum.com/history/_picts/ICONS/bell.gif | The bell is worth 3,000 points. It appears during the eleventh and twelfth level of game play |
| http://pacmanmuseum.com/history/_picts/ICONS/key.gif | The key is worth 5,000 points. It appears during the thirdteenth and all subsequent levels of game play |

* Fruit appears twice each round
* First one appears after 70 dots have been cleared.
* The second one appears after 170 dots have been cleared.
* Time fruit stays is about 9.75 sec.
* If a bonus fruit appears and Pac-Man eats a ghost, the timer that controls how long the fruit stays onscreen halts with everything else.