

Pac Macro Specification

Computing Science Student Society

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1 Description

This is the official specification for the game *Pac Macro*.

Pac Macro is a game organized and run by Simon Fraser University's Computing Science Student Society during Frosh Week each September. It is a variation on the classic game **Pac-Man**.

2 Summary

Of the teams of players, a single team is determined to be the 'Pacman' team and the other teams are determined to be the 'Ghost' teams.

One player from each team plays by running around downtown Vancouver; the other players play at the Simon Fraser University Vancouver campus.

2.1 Objective of the Game

The goal of a round for the Pacman is to eat all Pacdots on the map before the time runs out without being caught by the Ghosts.

The goal of a round for the Ghosts is to catch the Pacman before they eat all the Pacdots or delay the Pacman until the time runs out.

A round ends when any of the following scenarios occurs:

1. The Pacman eats all of the Pacdots.
2. A Ghost catches the Pacman.
3. The Pacman runs out of time.

Each team will be assigned at least one round to play as the Pacman team. The number of total rounds is determined by the gamemasters.

3 Gameplay

3.1 Formal Rules

- The players are grouped into 5 teams, 1 of which is the Pacman team and 4 of which are Ghost teams.

- For each team, one player plays the game running around in downtown Vancouver and the other players play the game at the Simon Fraser University Vancouver campus in control rooms. The Pacman team is given one room and the Ghost teams are given another room.
- The player running around downtown Vancouver communicates with the rest of their team in the control room through a phone call.
- If Pacman eats a *Powerdot*, then a period begins during which the Pacman may eat the Ghosts in a reversal of roles. During this period:
 - Any Ghosts which the Pacman eats are incapacitated and out of the game for the rest of the round.
 - The view permissions may change (see [Mobile Application](#) for details).

3.2 Mobile Application

- The players in the control room may use the Pac Macro mobile application to see the map of the players' locations.
 - During play, the Pacman team can see the locations of all players (the Pacman and all Ghosts).
 - During normal play, the Ghost teams will only be able to see the locations of the Ghost players.
 - During the period of time when the Powerdot is active, the Ghost teams can see the location of the Pacman player as well as all the Ghost players.

3.3 Boundaries and Limits

- The players running around may not garner any knowledge of the Pacman's location apart from the information given by their team in the control room and visually seeing the Pacman. They may not use the Pac Macro mobile application during this time.
- The players running around may not venture outside of the geographical boundaries set by the gamemasters.

- The players at SFU may not intentionally listen to the opposing team's conversations to gain better knowledge of the other teams' positions.
- Ghosts may not loiter in a specific location in order to block the Pac-man. This is up to the discretion of the gamemasters during the game.