Presentation of the project : The Phantom of the Opera

October 5, 2019

Game

► The game is inspired by Gaston Leroux's novel " Le Fantôme de l'Opéra"



▶ It happens in Opéra Garnier.

The story

- ▶ The opera is haunted by a mysterious phantom.
- ▶ The usual solo singer is replaced by a young singer.
- ▶ But the new young singer is abducted by the phantom.

The game (ie : the project)

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- ► The fantom wants to frighten the singer (La Carlotta) so that the show is canceled.
- ► The inspector wants to **discover the secret identity of the fantom** who can actually be one of the 8 **suspects**.

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- ► The steps alternate the players : phase 1 : IFFI, phase 2 : FIIF.

- ► The game is organized in rounds
- At the end of a round, the fantom either screams or does not: it screams if it is alone in a room or in black room
 - if it screams : the Carlotta is frightened and moves closer to the exit of the opera
 - the fact that the fantom screams can give clues to the inspector about the identity of the fantom

8 characters

- Meg Giry : can use secret stairs
- Madame Giry : can lock doors
- Joseph Buquet : can turn off the light
- Raoul de Chagny: can draw an alibi card
- Le Persan : can take another character with him when he moves
- Mr Richard : can swap position with another character
- Mr Moncharmin : can make other characters flee his room
- Christine Daaé: can attract other characters in the same room as hers

Ressources that explain the game

- https://boardgamegeek.com/boardgame/145645/ le-fantome-de-lopera
- ▶ https://www.youtube.com/watch?v=HH27Gd9b_Xc
- https://www.youtube.com/watch?v=0ym0a9QqrrQ

The server

- Located here :
 https://github.com/nlehir/phantom_opera
- Former text files version :
 https://github.com/groznyniko/ia_fopera
- Please note that a small number of rules is not taken into account by the server: in that case, consider the server rules. For instance the characters can only move to a distance of one room.

Goal of the project

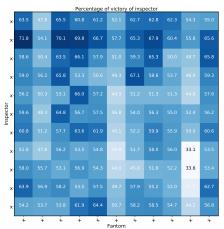
- ► You must build **two agents** (two Als)
 - an inspector
 - a fantom

Goal of the project

- ► The files random_inspector.py and random_fantom.py choose random actions.
- ▶ You must build smarter clients that play against each other.

Evaluation

- Interest of your method
- Comparison between agents :



Evaluation

It is required that you provide a document explaining your method (pdf preferred) and why you chose this method. It does not need to be very long but clear enough so that I understand what you tried to do.

Project

Questions ?

Project

- ▶ Questions ?
- ► Tomorrow we will discuss possible methods to build agents (but you are free to choose any method).

Project

► You can now build teams, experiment with the game and the server, and start working on the project.