Technical documentation

Global structure

The code is organized using the **MVC** (Model - View - Controller) model. It means there are 3 main packages :

• model: Contains all objects and data

• **view** : Allow to display the game

• **control** : Allow the user to interact with the game using inputs

And there is a Main.java containing the main loop of the game.

Model structure

The model structure is also splitted in different classes. The more important ones are listed here.

- Game.java : Singleton allowing access to all the data of the game;
- **TimeBoard.java**: The board where to move the pawn;
- Patch.java : Immutable record representing a patch;
- **Player.java**: Contains all data concerning a single player;
- **QuiltBoard.java**: Allow manipulation of patches with a player quilt board.

View structure

The view has two important classes.

- **ViewConsole.java**: Draw the game on the console for version 1 and 2;
- **ViewWindow.java**: Draw the game on a graphical window for version 3 and 4.

The two classes are independent and has no implementation in common because of their behavior which are too different.

Control structure

The control has two important classes.

- ControlConsole.java : Manage input on console version of the game;
- ControlWindow.java : Manage input on windowed version of the game.

Those classes have no common implementation because of their different behavior, like views classes.

Update since version 2

- Created a complete graphical interface;
- The player can now flip, rotate and place a patch at the position of his choice on his quilt board;
- The user can choose a file containing a list of patches to play a personalized version of the game.