## Pacman Architecture

## March 17, 2014

A set of source files is given in the web site, this is an implementation of the Pacman Game. **Exercice 1** 

- 1. Build detailed classe diagrams of each of the three modules: game, base, pacman independantly and give a global package diagram to show relationships between the modules.
- 2. Give the collaboration diagram corresponding to the method draw in the class Pacman.
- 3. Give the sequence diagram corresponding to the method init in the class PacmanGameLevelDefault.
- 4. Give the state diagram of an objet belonging to the UniverseDefault class.
- 5. Give the state diagram of an objet belonging to the GameMovableDriverDefault class.

## Exercice 2

1. Identify cases of task delegation through objects and explain how it works.

## Exercice 3

- 1. Which Design Patterns have been used in this application? For each one give arguments in favor or in de-favor of this using.
- 2. Suggest a new organisation of the software separating the two concerns:
  - maintainers of the game in charge to add new rules or features,
  - security of the application to guarantee to not crash.