

Project Cypherynth

Author: lowell.abbott

Date: 2013-10-17

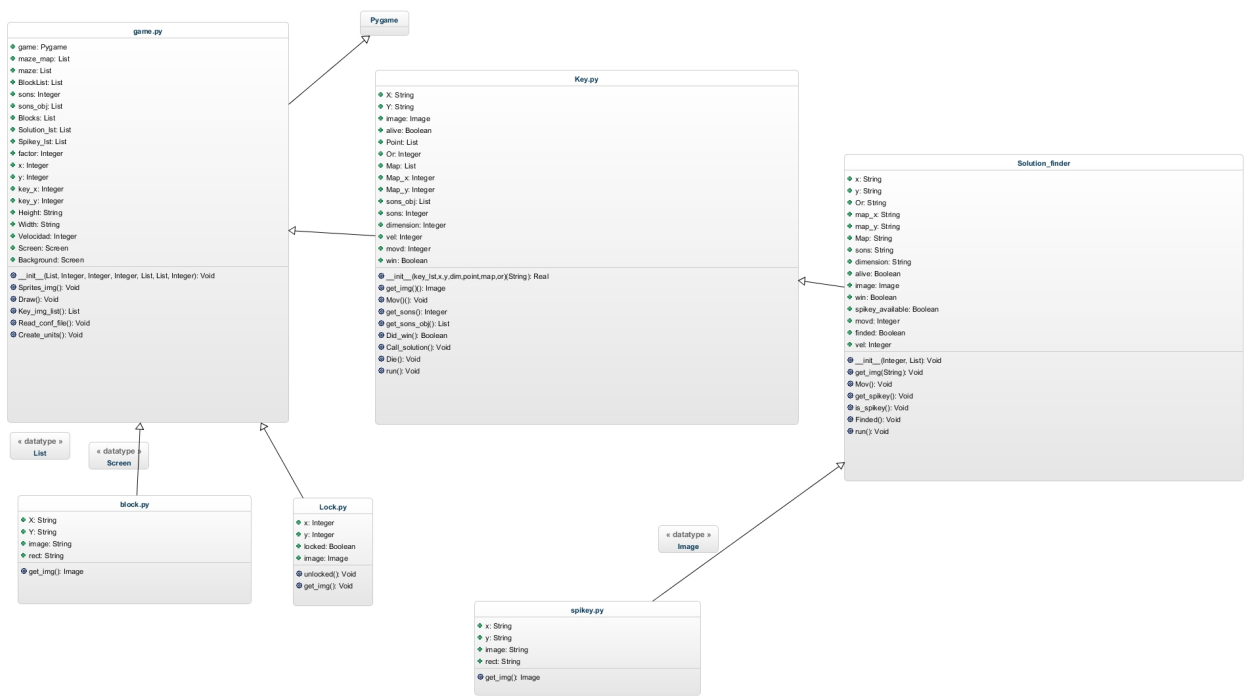
Table of Contents

Overview	<hr/>	3
Model Description	3
Diagrams	3

1. Overview

1.1 Model Description

1.2 Diagrams



2 Class Descriptions

2.1 Class game.py

2.1.1 Attributes

- **game** : Pygame [1]
- **maze_map** : List [1]
- **maze** : List [1]
- **BlockList** : List [1]
- **sons** : Integer [1]
- **sons_obj** : List [1]
- **Blocks** : List [1]
- **Solution_lst** : List [1]
- **Spikey_lst** : List [1]
- **factor** : Integer [1]
- **x** : Integer [1]
- **y** : Integer [1]
- **key_x** : Integer [1]
- **key_y** : Integer [1]
- **Height** : String [1]
- **Width** : String [1]

- **Velocidad** : Integer [1]

- **Screen** : Screen [1]

- **Background** : Screen [1]

2.1.2 Generalizations

- **Pygame**

2.1.3 Operations

- Void **__init__** (parameter : List, parameter2 : Integer, parameter3 : Integer, parameter4 : Integer, parameter5 : List, parameter6 : List, parameter7 : Integer)

- Void **Sprites_img** ()

- Void **Draw** ()

- List **Key_img_list** ()

- Void **Read_conf_file** ()

- Void **Create_units** ()

2.2 Class Pygame

2.2.1 Attributes

No additional attributes

2.2.2 Generalizations

None

2.2.3 Operations

2.3 Class block.py

2.3.1 Attributes

- **X** : String [1]
- **Y** : String [1]
- **image** : String [1]
- **rect** : String [1]

2.3.2 Generalizations

- **game.py**

2.3.3 Operations

- Image **get_img** ()

2.4 Class Key.py

2.4.1 Attributes

- **X** : String [1]
- **Y** : String [1]
- **image** : Image [1]
- **alive** : Boolean [1]
- **Point** : List [1]
- **Or** : Integer [1]

- **Map** : List [1]
- **Map_x** : Integer [1]
- **Map_y** : Integer [1]
- **sons_obj** : List [1]
- **sons** : Integer [1]
- **dimension** : Integer [1]
- **vel** : Integer [1]
- **movd** : Integer [1]
- **win** : Boolean [1]

2.4.2 Generalizations

- **game.py**

2.4.3 Operations

- Real **__init__(key_lst,x,y,dim,point,map,or)** (parameter : String)
- Image **get_img()** ()
- Void **Mov()** ()
- Integer **get_sons** ()

- List **get_sons_obj** ()

- Boolean **Did_win** ()

- Void **Call_solution** ()

- Void **Die** ()

- Void **run** ()

2.5 Class **Solution_finder**

2.5.1 Attributes

- **x** : String [1]

- **y** : String [1]

- **Or** : String [1]

- **map_x** : String [1]

- **map_y** : String [1]

- **Map** : String [1]

- **sons** : String [1]

- **dimension** : String [1]

- **alive** : Boolean [1]

- **image** : Image [1]
- **win** : Boolean [1]
- **spikey_available** : Boolean [1]
- **movd** : Integer [1]
- **finded** : Boolean [1]
- **vel** : Integer [1]

2.5.2 Generalizations

- **Key.py**

2.5.3 Operations

- Void **__init__** (parameter : Integer, parameter2 : List)
- Void **get_img** (parameter : String)
- Void **Mov** ()
- Void **get_spikey** ()
- Void **is_spikey** ()
- Void **Finded** ()

- Void **run** ()

2.6 Class spikey.py

2.6.1 Attributes

- **x** : String [1]

- **y** : String [1]

- **image** : String [1]

- **rect** : String [1]

2.6.2 Generalizations

- **Solution_finder**

2.6.3 Operations

- Image **get_img** ()

2.7 Class Lock.py

2.7.1 Attributes

- **x** : Integer [1]

- **y** : Integer [1]

- **locked** : Boolean [1]

- **image** : Image [1]

2.7.2 Generalizations

- **game.py**

2.7.3 Operations

- Void **unlocked** ()

- Void **get_img** ()