

Burden of Proof demo1b

Game Design Document

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1 Game

1.1 Overview

- genre : crime investigation video game ;
- demographics : 16+ ;
- TODO.

1.2 Gameplay

TODO

1.3 City design

City built from blueprint using parts specified in figure 1.

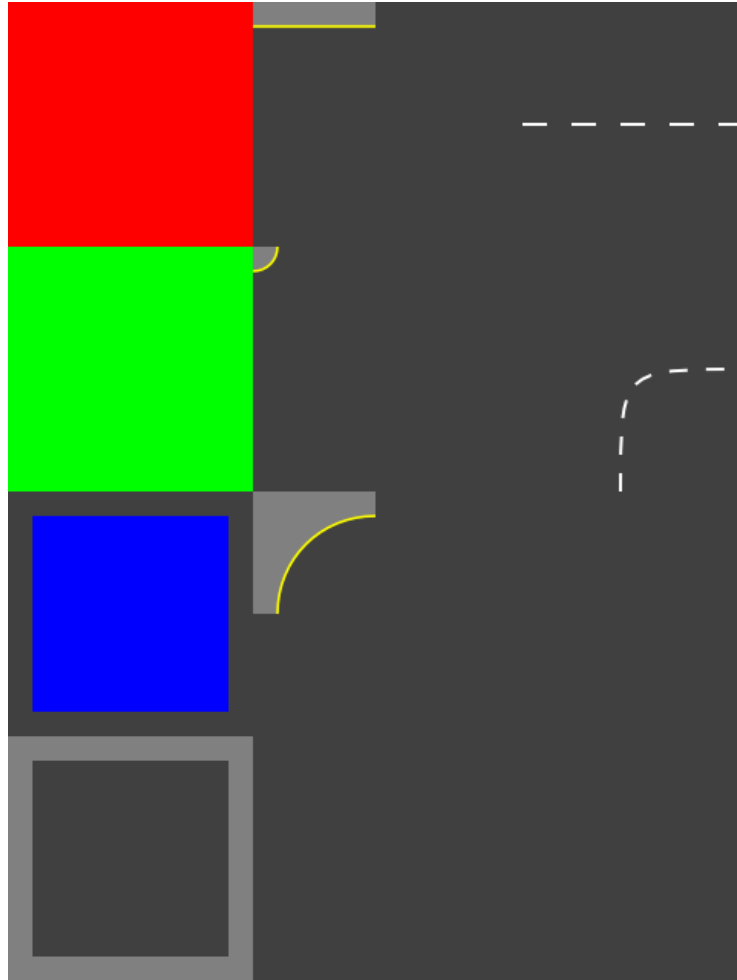


Figure 1: City parts - First column : road block, ground block, building block, building pad - Second column : half sidewalk, interior sidewalk, exterior sidewalk - Third column : straight markings, curved markings - Sidewalks have a roadside curb (yellow)

2 Implementation

2.1 Code design

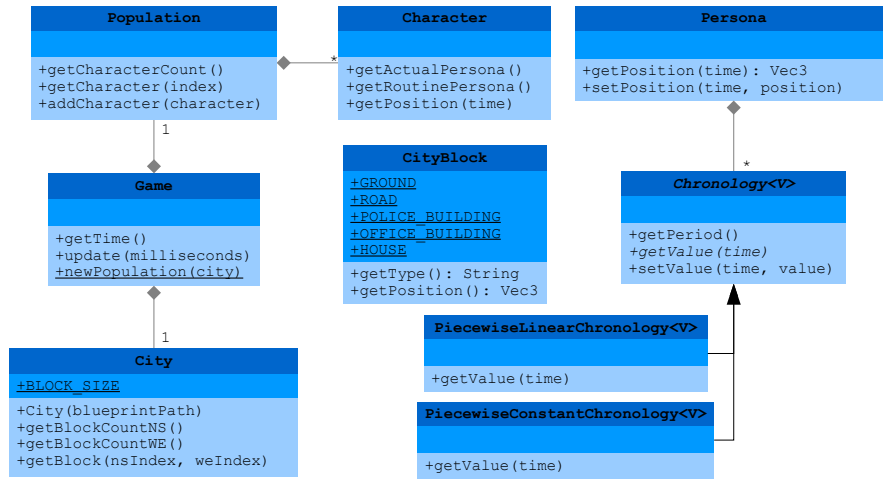


Figure 2: Classes

TODO: more UML diagrams

2.2 Coding conventions

- C++: cpplint
- Python: pep8

2.3 Planning

1. Application

- (DONE) Setup project files
- (DONE) Add basic application code from demo1

2. Model - Essential classes

- (DONE) Design (figure 2)
- (DONE) Test and implement
- (TODO) Integrate with application

3. Model - Crime generation

- (TODO) Add method `Game.generateCrime()` with Persona attribute `murderousIntent`

4. Graphics - City

- (TODO) Integrate city generation from demo1
- (TODO) Integrate city visualization from demo1
- (TODO) Add skybox (blue sky + sun)
- (TODO) Add trees
- (TODO) Add streetlights
- (TODO) Add buildings

5. Graphics - Characters

- (TODO) Integrate character generation from `generatehuman`
- (TODO) Add neutral character visualization
- (TODO) Add walking animation
- (TODO) Add levels of detail
- (TODO) Add gender visualization
- (TODO) Add age visualization
- (TODO) Add ethnicity visualization

6. Graphics - Phone

- (TODO) Add phone

7. Investigation

- (TODO) Design and planning