

RPG Map Editor Manual

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Tile types

- Opaque tiles with no alpha



- Alpha tiles



- Overlay tiles: any tile with collision type Overlay (★) in the tileset

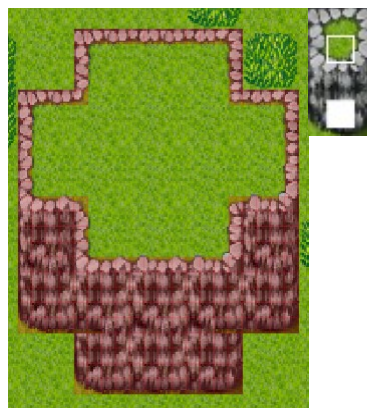


Tile collision types

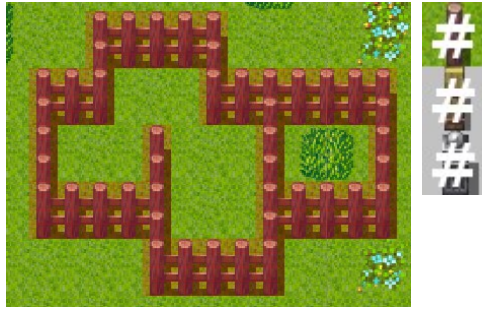
- **Block (■)**: full tile has collision



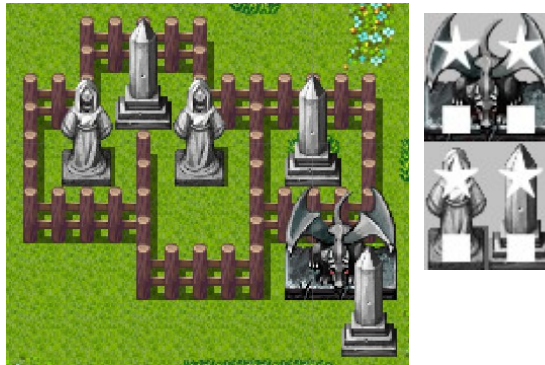
- **Wall (□)**: only edge parts of the tile have collision



- **Fence (#)**: special collision for fence tiles



- **Overlay(★)**: not a collision but a type of tile. This tile will be drawn in Overlay layer.



Tile layers

There are 3 different layers where tiles will be placed:

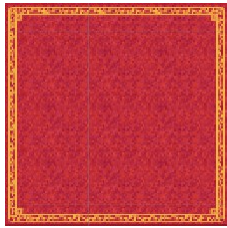
- **Ground**: opaque tiles will be placed here unless Shift/Ctrl key is hold while drawing.
- **Ground Overlay**: alpha tiles will be placed here.
- **Overlay**: tiles with collision type Overlay will be placed here.

Drawing tiles

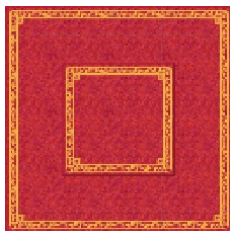
- **Left Mouse Button**
 - Select tile from tileset menu.
 - Draw tile or copied group of tiles. If the tile is selected from tileset, not copied using right mouse button, and the tile is opaque, it will be drawn in the ground layer without overwriting any other tile in the other layers. Useful to change terrain type without erasing ground overlay tiles.

- **Left Mouse Button + Ctrl/Shift key**

- Force drawing opaque tiles in the ground overlay layer



Tiles drawn pressing left mouse button only



Center tiles have been drawn in ground overlay by pressing left mouse button + Ctrl/Shift key.

NOTE: in Unity editor, use shift for special action.

- **Right Mouse Button**

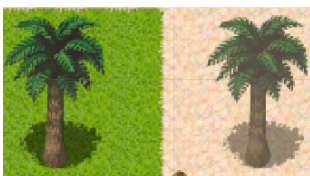
- Copy tile under the cursor or press and drag to copy a group of tiles. It's working both, in the map and tileset.

- **Right Mouse Button + Ctrl/Shift key**

- Copy only alpha tiles if any, otherwise copy opaque tile. Use this to copy, for example, a tree without copy the ground tiles under it.



Left palm copied using right mouse button only



Left palm copied using right mouse button + Ctrl/Shift key

Asset Components

- **Tileset**

The tileset contains the graphics for all tiles and the collision data for all of them.

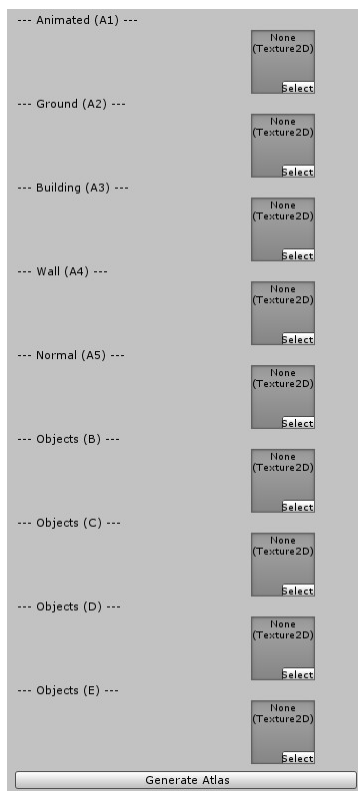
A tileset is composed of an atlas, automatically created after selecting the separated tileset png files.

- **Tilemap**

A tilemap contains the information to compose the map and a reference to the tileset used to draw the map and tileset collision data.

Creating a Tileset

In order to create a tileset, you have to select **Assets/Create/RpgMapEditor/Tileset**.



Before be able to use the tileset, you need to generate the tileset atlas by choosing each tileset part using a separated png texture.

You can use any tileset compatible with RPG Maker Vx. Some of them are free and can be found here: <https://vxresource.wordpress.com/category/resources/tilesets/>.

I have added the macks tileset to the project so you have one already to use.

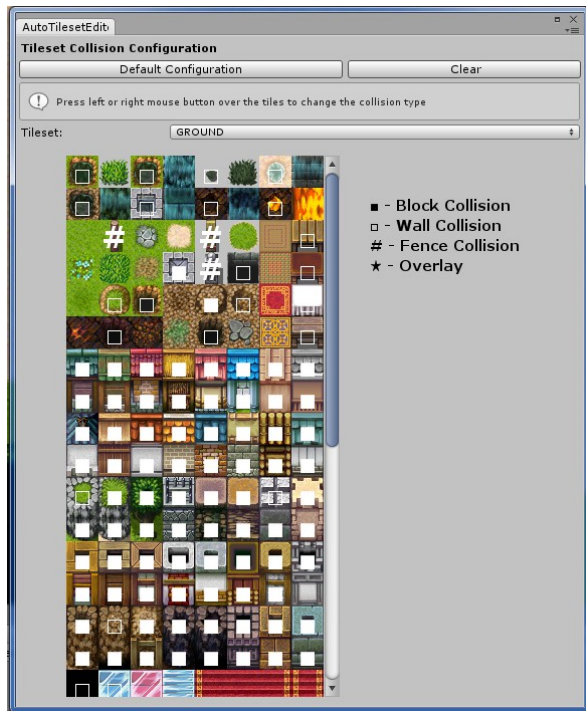
As you can see, each tileset png file have a name ended with a suffix, a letter and a number. You can experiment by yourself but I recommend you to select the right texture in order to make the tileset working.

You can skip some of the textures, in fact, some of the tilesets are not completed and have only some of them.

If a texture is not selected, when generating the tileset atlas, the tiles of that texture will be transparent.

Press the Generate Atlas button once you have selected all textures.

Once the atlas is generated, you will be able to edit the tileset.



This is the tileset edit window. Here you can see all tileset groups pressing the tileset popup.

You can also edit the tile collision type by pressing left or right mouse button. Or you can clear all collision information pressing "Clear" button, or set default configuration by pressing "Default Configuration" button.

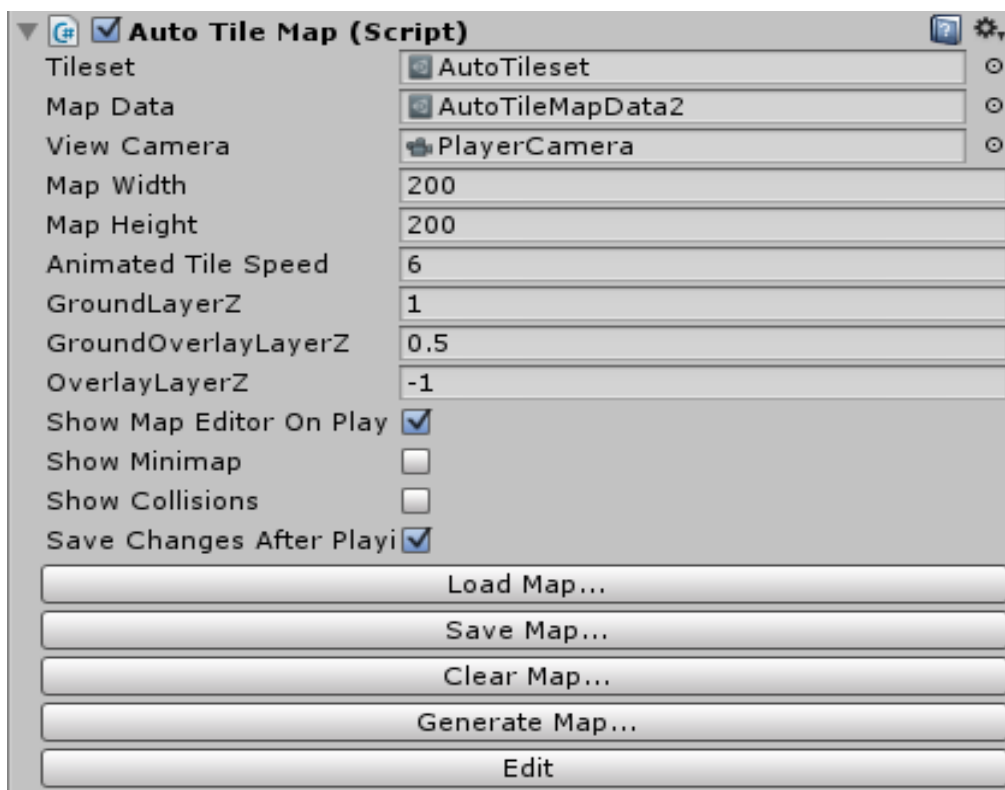
You also will be able to configure the collision later through the autotilemap.

Creating an AutoTileMap

In order to create an AutoTileMap, you have to select Game Object/Create Other/RpgMapEditor/AutoTileMap.

Before start editing the AutoTileMap you will have to select an auto tile map data asset or create one by pressing "Create" button, and do the same for a tileset.

The, you will see something like this:



Editing an AutoTileMap

There are some attributes you can change when editing an AutoTileMap:

- **View Camera:** the camera used by TileMap Editor Gui. I recommend to use the camera prefab in **Samples/Prefabs/PlayerCamera.prefab** because it's prepared to be pixel perfect when drawing the tiles when you set an integer zoom value or multiple of two if value is less than 1.
- **Map width and height:** modify these values to change the map size. You have to press "Apply Changes" in order to set them.
- **GroundLayerZ:** this is the Z position of ground tile layer.
- **GroundOverlayLayerZ:** this is the Z position of ground overlay layer.
- **OverlayLayerZ:** this is the Z position of overlay layer.
- **Animated tile speed:** the speed or frames per second for animated tiles.
- **Show Map Editor On Play:** if activated, the in game map editor will be drawn while playing so you can modify the AutoTileMap.
- **Show Minimap:** if activated, the AutoTileMap tiles won't be drawn neither created, but instead, a texture will be shown with a colored square for each tile.
- **Show Collisions:** if activated, the collisions will be displayed in red color.
- **Save Changes After Playing:** if activated, all modifications made while playing will be saved after exiting playing mode.
- **Load Map:** Load a map from an xml file previously saved with Save Map.
- **Save Map:** Save the map into an xml file.
- **Generate Map:** create a random procedural map. This is working only for macks tileset. In order to make it work with other tileset or configure it, you have to change the code by script. Have a look, it's not difficult to modify and you can even improve it!
- **Edit/Commit:** open the edit menu to modify the map and collisions of the tileset. In order to save changes properly you should press this button called "Commit" while in edit mode.

Editor Keys

- **Ctrl/Shift + Z:** undo drawing operation
- **Ctrl/Shift + Y:** redo drawing operation
- **Mouse Scroll Up/Down:** zoom in/out
- **M:** show/hide minimap (in game editor only)
- **C:** show/hide collisions (in game editor only)