

FANTASTIC CITY GENERATOR 3.1.2

By MasterPixel3D

How to use Fantastic City Generator:

1. Import Package
2. Select 'Window | Fantastic Generator' from the menu



3. To generate new City, click in the button 'Small', 'Medium', 'Large' or 'Very Large'



Generate Streets

Small City

Medium City

Large City

Very Large City

With Sattelite City

Activate if you want to create two cities connected by a Highway

Border Flat

City with Flat Surroundings, facilitating the insertion of land around the city

Buildings

Generate Buldings - *Clear Buildings*

With DownTown Area

Activate to create a metropolitan city

DownTown Size

Set the size of the center area

Traffic System

Add Traffic System - *Remove Traffic System*

Traffic Car Direction
Right Hand or Left Hand

4. Click in button 'Generate Buildings'

Vehicles to be added randomly in Awake (), just put the 'Assets / Fantastic city generator / Traffic system / Traffic System.prafab' into the scene

*Now you can create two cities connected by highway.
Highway modules can also be added manually. They are in the Highway folder.*

5. Click in button "Add Traffic System" to add vehicle traffic to the scene

Vehicles to be added randomly in Awake (), just put the 'Assets / Fantastic city generator / Traffic system / Traffic System.prafab' into the scene

Set the Player in the Traffic System Inspector so that vehicles exist only near the Player. (Recommended to set the camera)

6. Optionally click 'Inverse Car Direction' to reverse the direction of vehicle traffic

7. Optionally you can click "Combine Meshs" to combine meshes from nearby buildings

Day Night Scenes

Adding Night/Day Scene option

- 1) Create a city using the FCG
- 2) Add the prefab "Fantastic City Generator/DayNight/DayNight" to the scene
- 3) Select the DayNight in the Hierarchy, and in the Inspector (in the Directional Light field) set the Directional light of the scene.
- 4) Click 'Day' button for daytime scene or 'Night' button for night scene.

Switch Day/Night at runtime

- 1) Create a city using the FCG
- 2) Add the prefab "Fantastic City Generator/DayNight/DayNight" to the scene
- 3) Select the DayNight in the Hierarchy, and in the Inspector (in the Directional Light field) set the Directional light of the scene.
- 4) Click 'Day' button for daytime scene or 'Night' button for night scene.

The code to switch day and night is this:

```
DayNight dayNight =  
FindObjectOfType<DayNight>();  
if (dayNight){          dayNight.isNight    =  
    !dayNight.isNight;  // true   or   false  
    dayNight.ChangeMaterial();  
}
```

Open "Assets/Fantastic City Generator/DayNight/ShiftAtRuntime to see an example

Open the "DayNight Runtime Demo" scene to see a demo scene.

Video: Switch day/night in one click:

<https://www.youtube.com/watch?v=lr94kNKMEuA>

Add third-party Buildings:

You can add third-party buildings to your copy of the FCG system

Video: Add third-party Buildings:

https://youtu.be/kVrWir_WjNY

BC - Downtown street building (not in the corner)
EB - Corner buildings in suburban areas
BB - Buildings in suburban areas (not in the corner)
BR - Residential buildings in suburban areas (not in the corner)
BK - Buildings that occupy an entire block
SB - Large buildings that occupy a larger block
SB - Large buildings that occupy larger blocks
DC - Corner buildings that occupy one side of the street
MB - Buildings that occupy both sides of the street
DC - Corner buildings that occupy both sides of the street

BBS - Buildings in suburban areas (not in the corner) on slopes
BCS - Downtown street building (not in the corner) on slopes

Adding Third Party Buildings to the DayNight System

When adding third-party buildings, if you have day and night materials, you can include them in the FCG's DayNight, so that your day and night materials are also alternated by the DayNight system.

- 1) Select the DayNight in the Hierarchy, and in the Inspector
- 2) In "MaterialDay" add daytime version of materials
- 3) In "MaterialNight" add the night version of the materials

Warning:

Only materials that have a day and night version are included here. (Materials that will be used both night and day do not need to be here)

The material daytime version index (in MaterialDay) must match the material night version index (in Material Night)

Example:

When switching to the night scene, materialDay[1] will be replaced by materialNight[1]

Tutorials

Add third-party Buildings:

https://youtu.be/kVrWir_WjNY

Add third-party objects:

<https://youtu.be/NgEdgigaSlg>

Switch day/night in one click:

<https://www.youtube.com/watch?v=lr94kNKMEuA>

Generate City at Runtime:

SampleScene in Asset/Fantastic City Generator/Scenes

Adding Vehicles on Traffic System:

Video 1: https://youtu.be/E_v5WmB3tyY

Video 2: <https://youtu.be/LDujofxGoqs>

Turn Signals and Brake Lights:

<https://youtu.be/bSuA6Q8D5hw>

Resize City Manually:

https://youtu.be/CbJ_fwATGg

Adding waypoints of Traffic System Manually:

<https://youtu.be/LDujofxGoqs?t=96>

Crosswalk Colliders:

<https://youtu.be/oYYCtR1xh8s>

Time adjustment for traffic lights:

<https://youtu.be/oYYCtR1xh8s?t=131>

For more info and video tutorials access:

<http://masterpixel3d.com/fcg>

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