

# Biome & Vegetation PCG

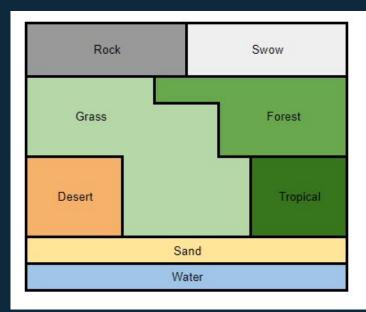




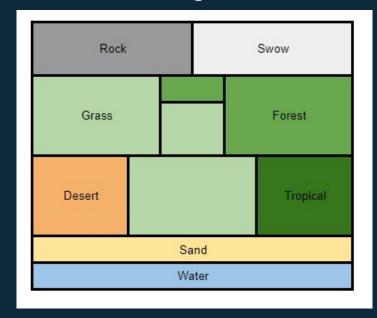
## A. Définir les biomes

Selon 2 axes : hauteur et humidité

8 biomes



11 régions



## A. Définir les biomes

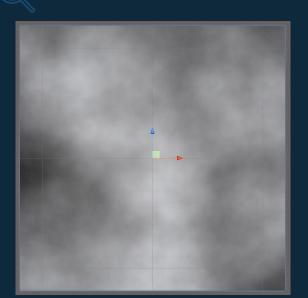
```
Snow {
                Rock {
                                Forest {
                                                 Forest {
                                                                   Grass {
                                                                                    Grass {
                                                                                     H = 0.5;
 H = 0.8;
                                                  H = 0.5;
                                                                    H = 0.5;
                 H = 0.8;
                                H = 0.6;
 M = 0.5;
                 M = 0.0;
                                 M = 0.4;
                                                  M = 0.6;
                                                                    M = 0.4;
                                                                                     M = 0.0;
                                                                  } //useless
} //useless
               } //useless
                               } //useless
                                                 } //useless
```



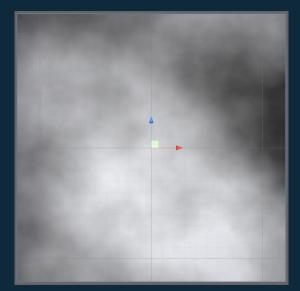
## B. Générer le terrain

Avec le bruit de Perlin.

**Height Map** 

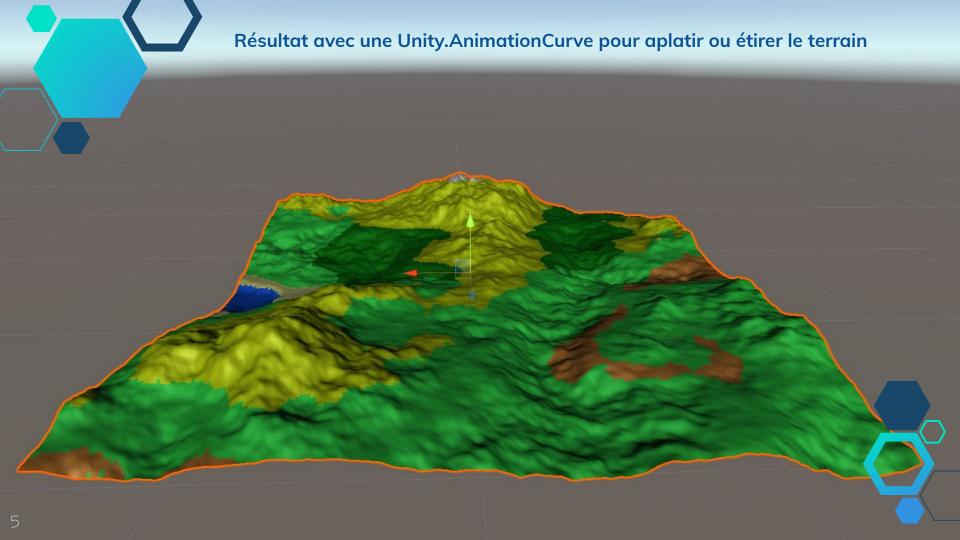


**Moisture Map** 



**Color Texture** 

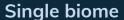


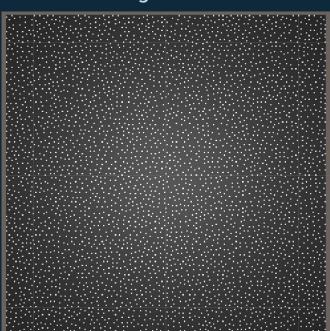




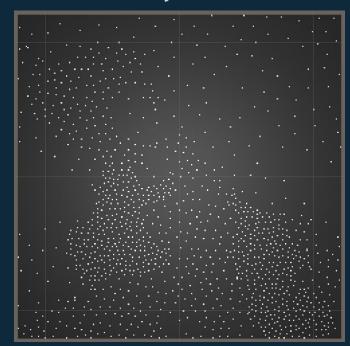
## C. Echantillonner

### Poisson Disk Sampling





### **Every biome**





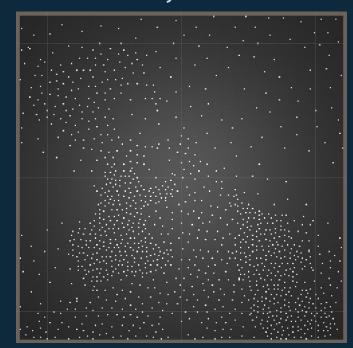
## C. Echantillonner

### Poisson Disk Sampling

#### **Color texture**



### **Every biome**





### C. Echantillonner

### Poisson Disk Sampling

### Pour chaque biome:

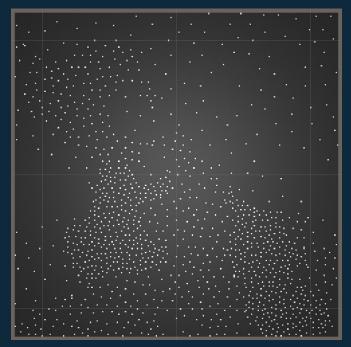
Générer un échantillonnage

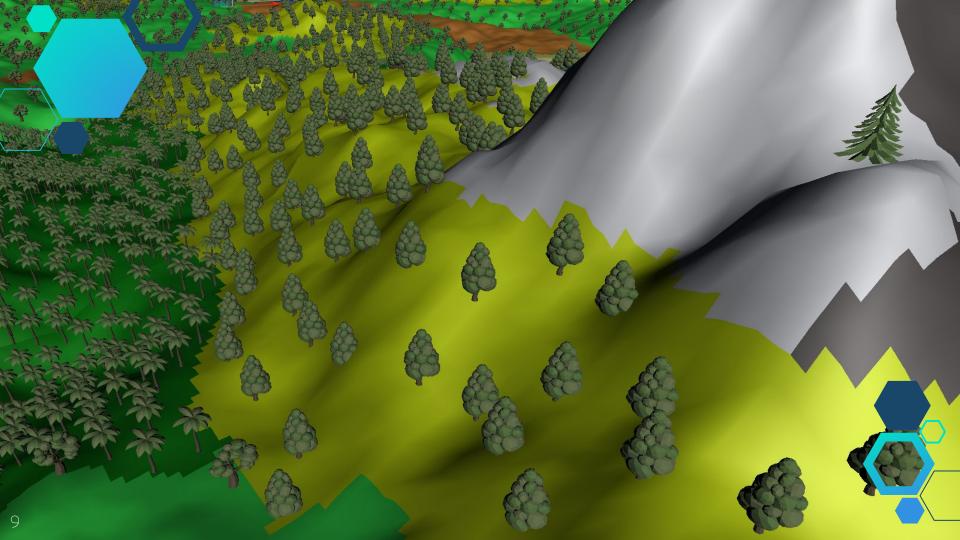
Ne garder que les points placés sur biome correspondent

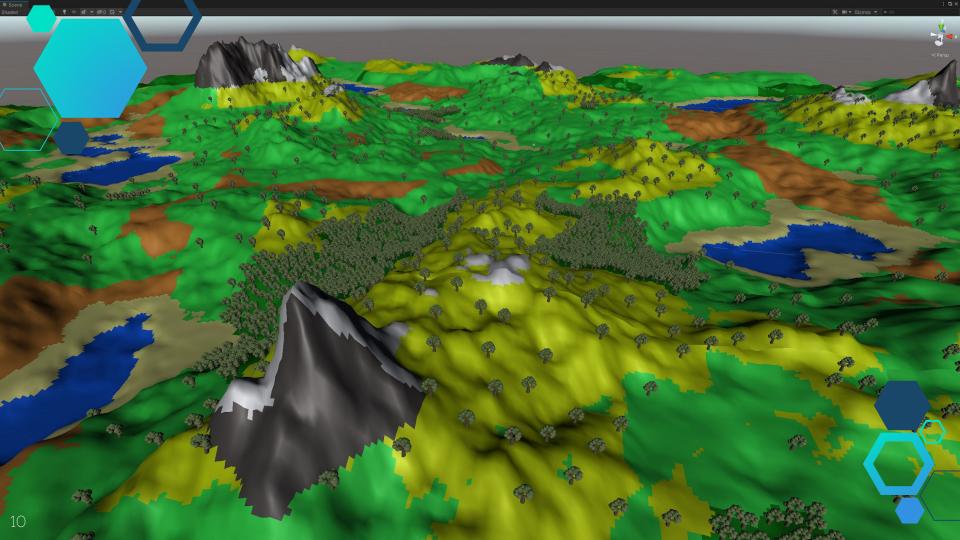
#### Problèmes:

- Liaisons inter-biomes
- Liaisons inter-chunks

### **Every biome**







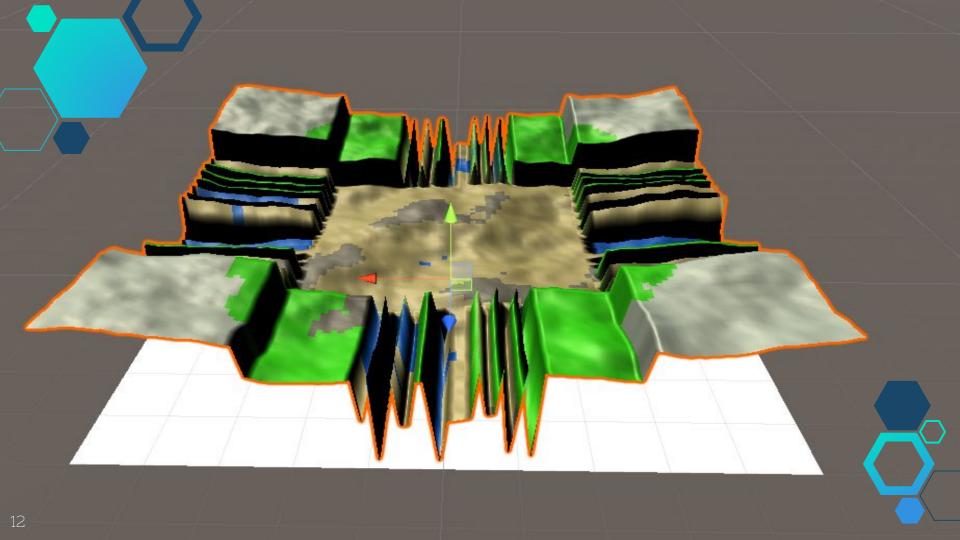


## Des questions?

You can find me at:

https://github.com/NicolasCalvet/Biome-and-Vegetation-Procedural-Generation







Credits

Special thanks to all the people who made and released these awesome resources for free:

- Presentation template by <u>SlidesCarnival</u>
- Photographs by <u>Unsplash</u>

