

Biome & Vegetation PCG

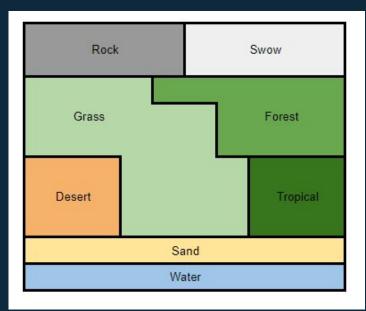




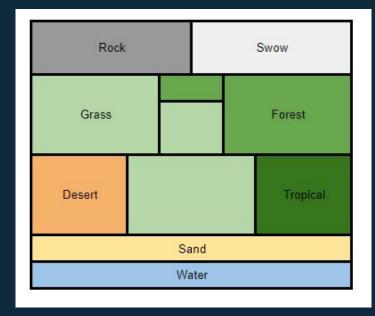
A. Définir les biomes

Selon 2 axes : hauteur et humidité

8 biomes



11 régions



A. Définir les biomes

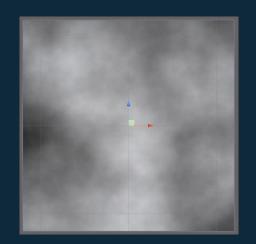
Snow { Rock { Forest { Forest { Grass { Grass { H = 0.8;
$$H = 0.6; M = 0.6; M = 0.6; M = 0.4; M = 0.6; M = 0.6; M = 0.4; $H = 0.5; M = 0.4; M = 0.6; M = 0.4; M = 0.4; M = 0.0; M = 0.4; $H = 0.5; M = 0.4; M = 0.6; M = 0.4; M = 0.0; M = 0$$$$



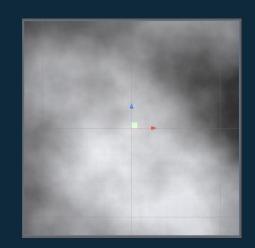
B. Générer le terrain

Avec le bruit de Perlin.

Height Map

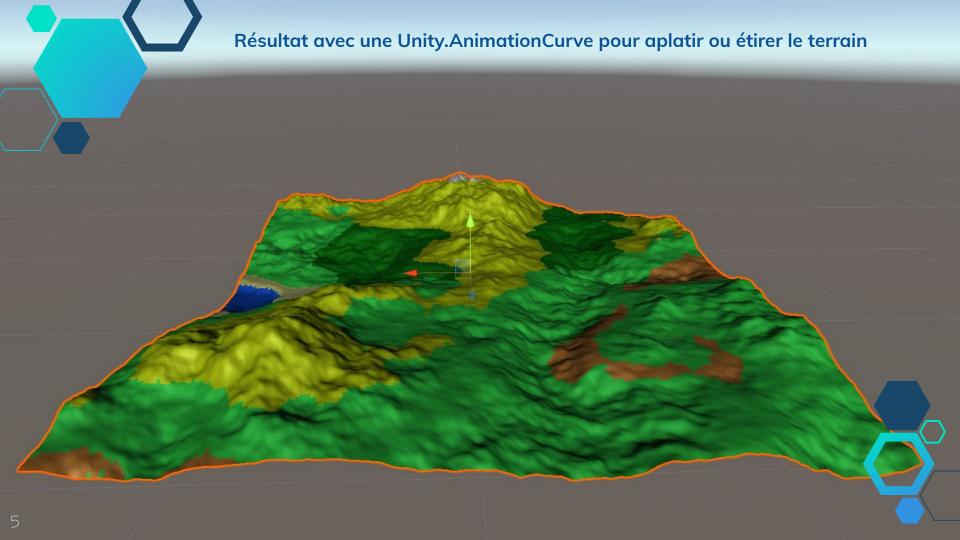


Moisture Map



Color Texture



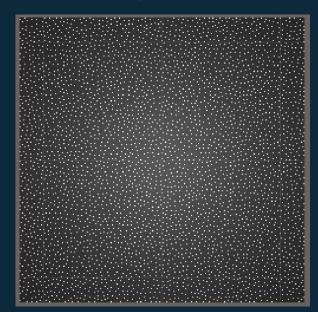




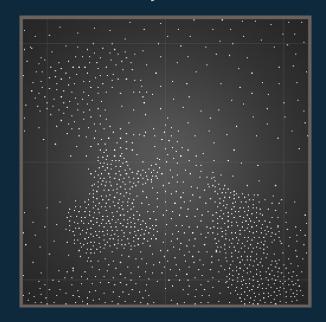
C. Echantillonner

Poisson Disk Sampling

Single biome



Every biome





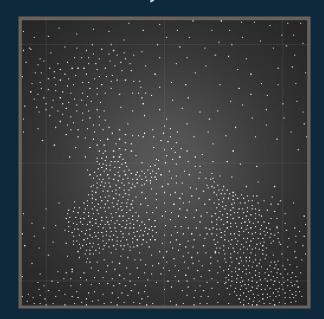
C. Echantillonner

Poisson Disk Sampling

Color texture



Every biome





C. Echantillonner

Poisson Disk Sampling

Pour chaque biome:

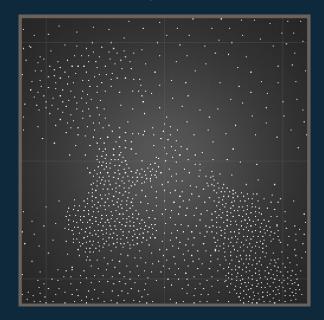
Générer un échantillonnage

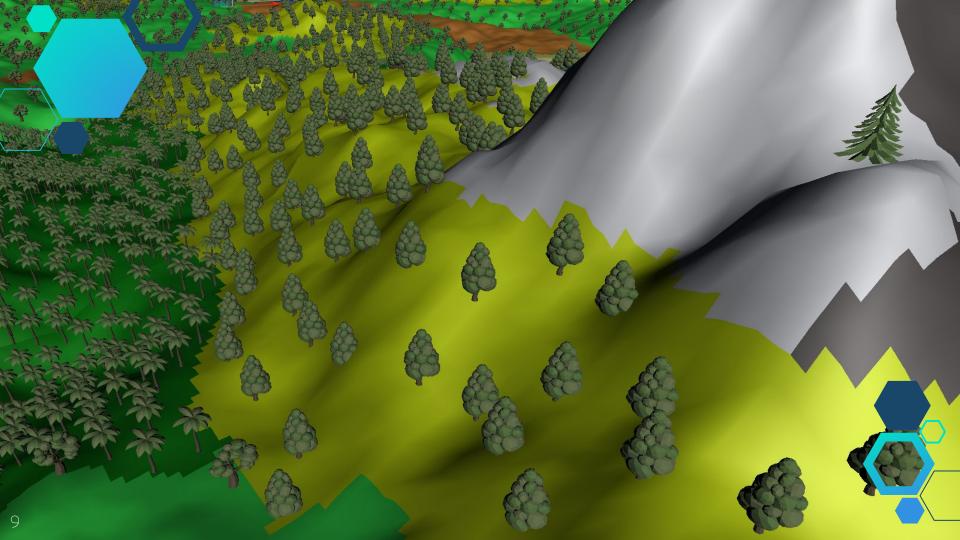
Ne garder que les points placés sur biome correspondent

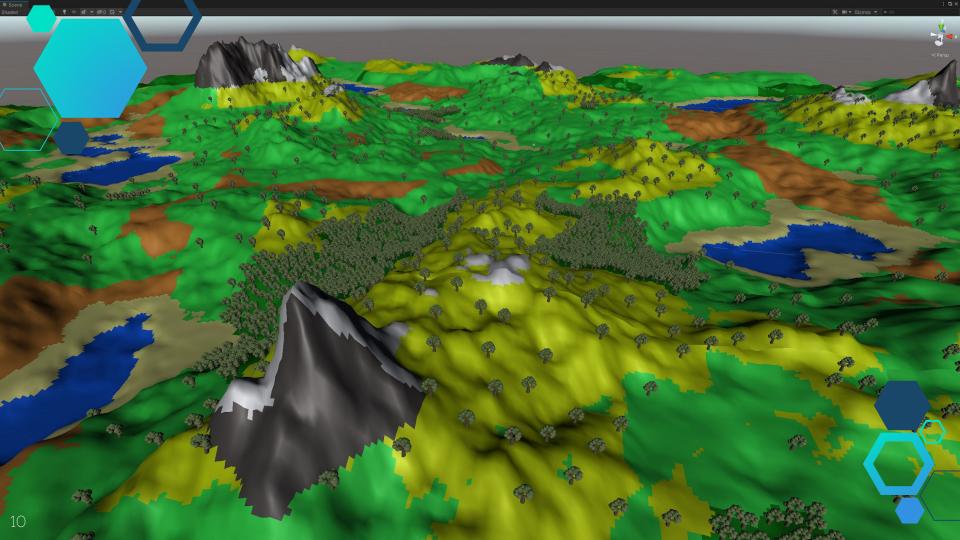
Problèmes:

- Liaisons inter-biomes
- Liaisons inter-chunks

Every biome







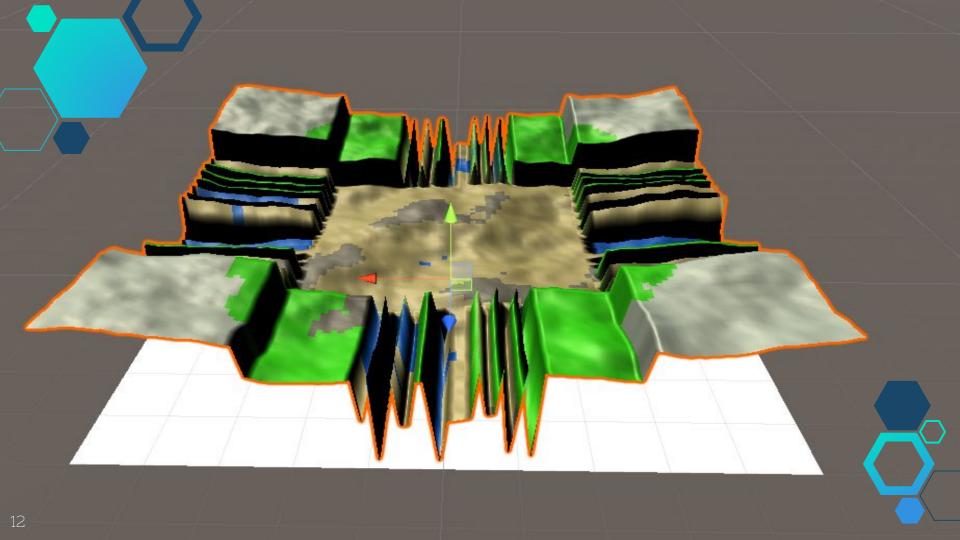


Des questions?

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>

