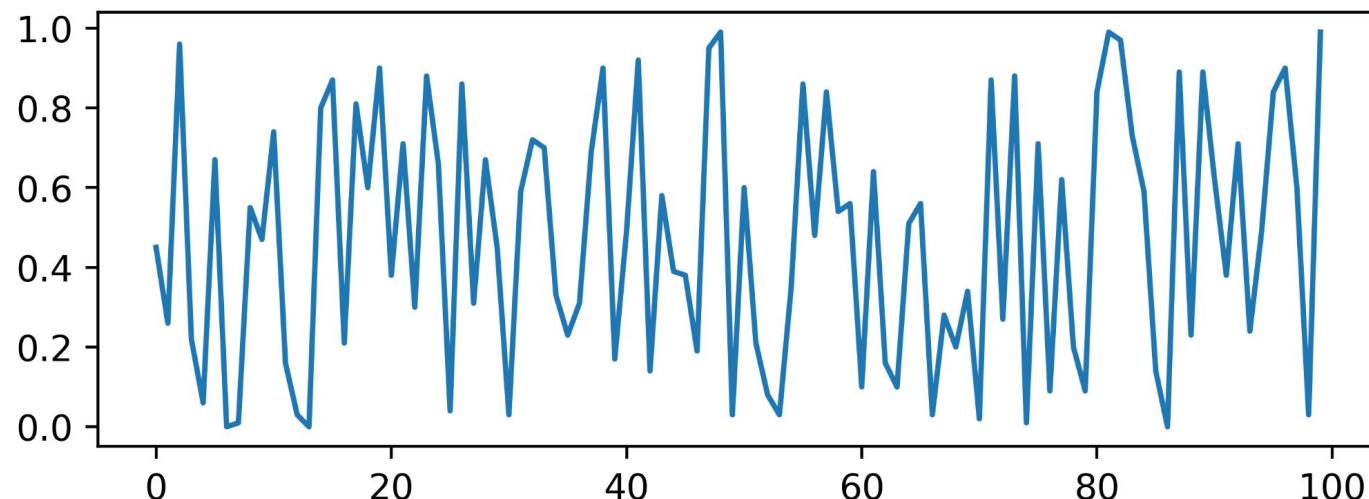
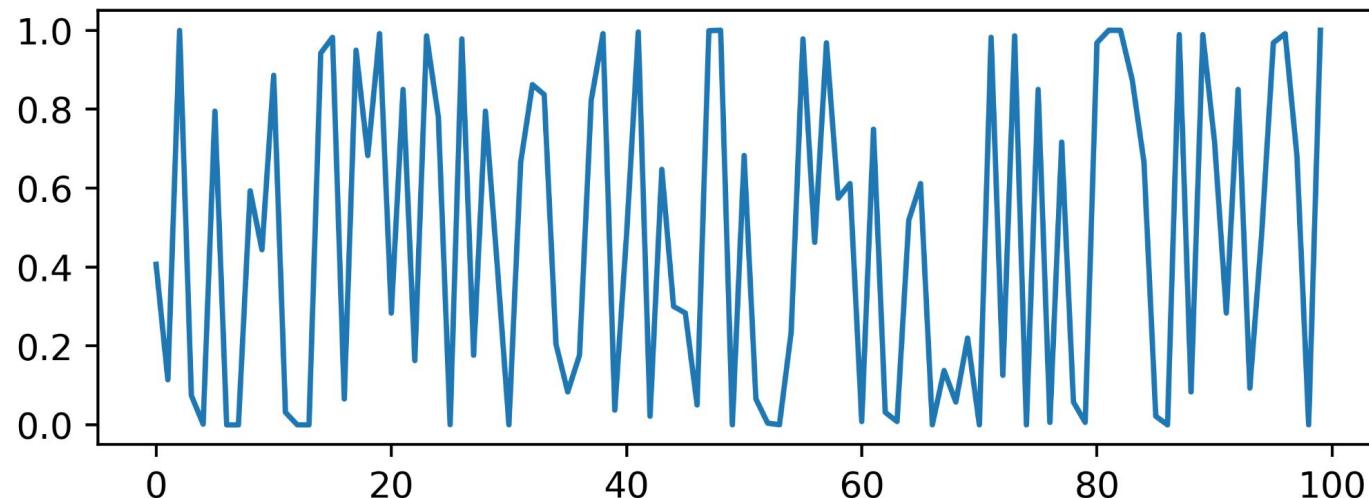


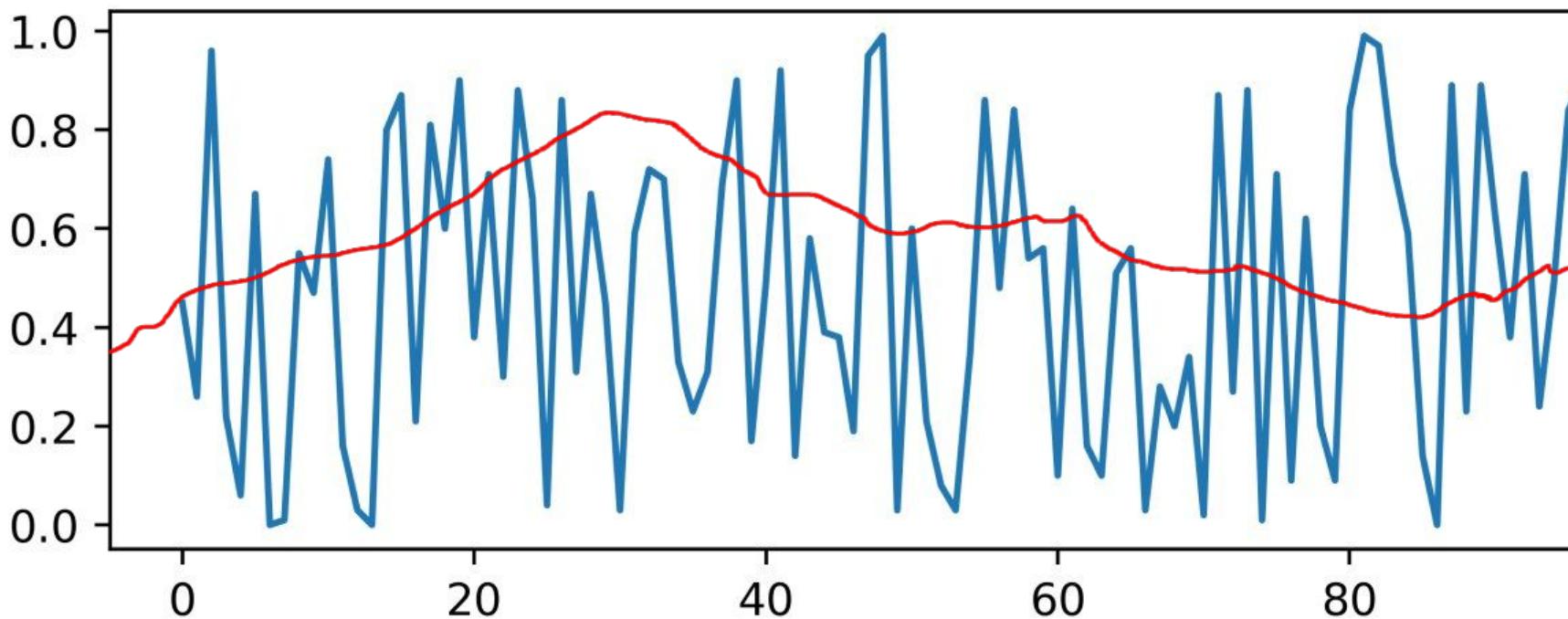


Procedural Generation

Denysenko Stepan 31.03.2023

Random noise function vs smoothed random

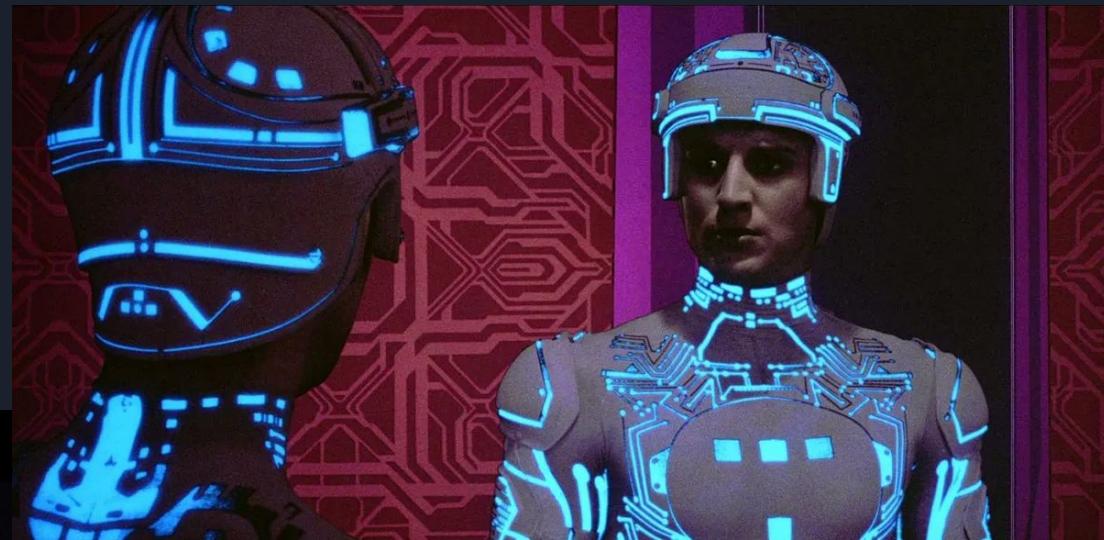
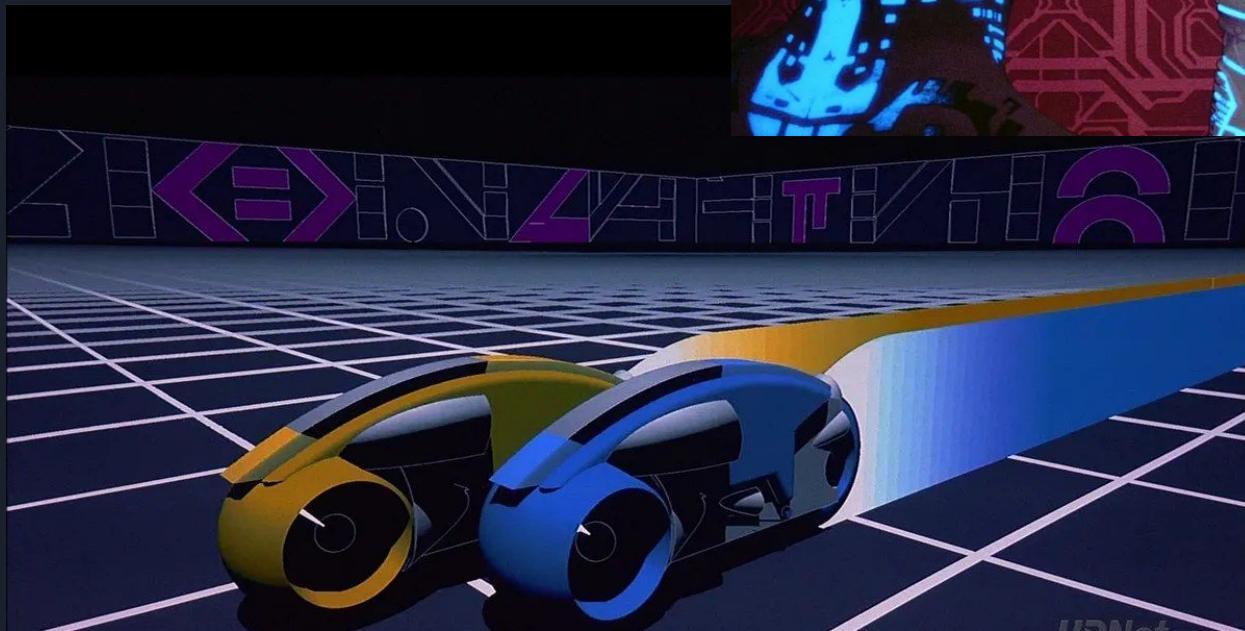




Examples of procedural generation

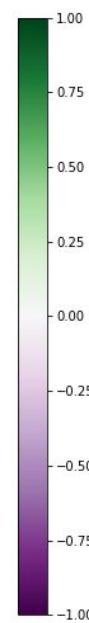
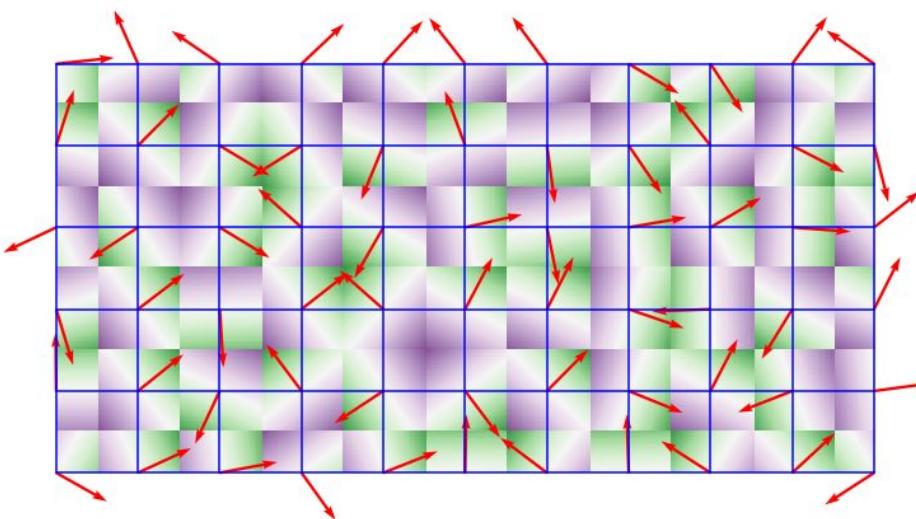
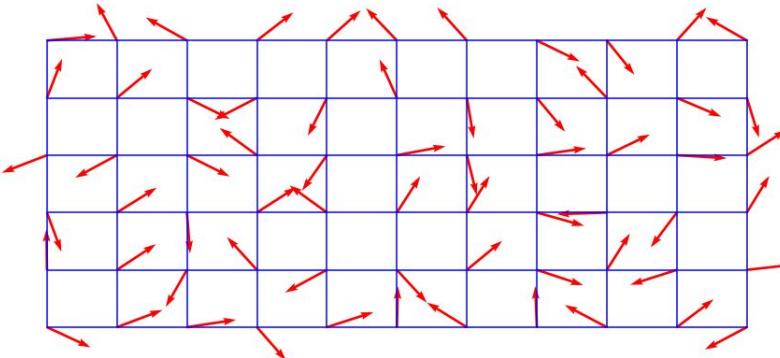


Early 80's CGI

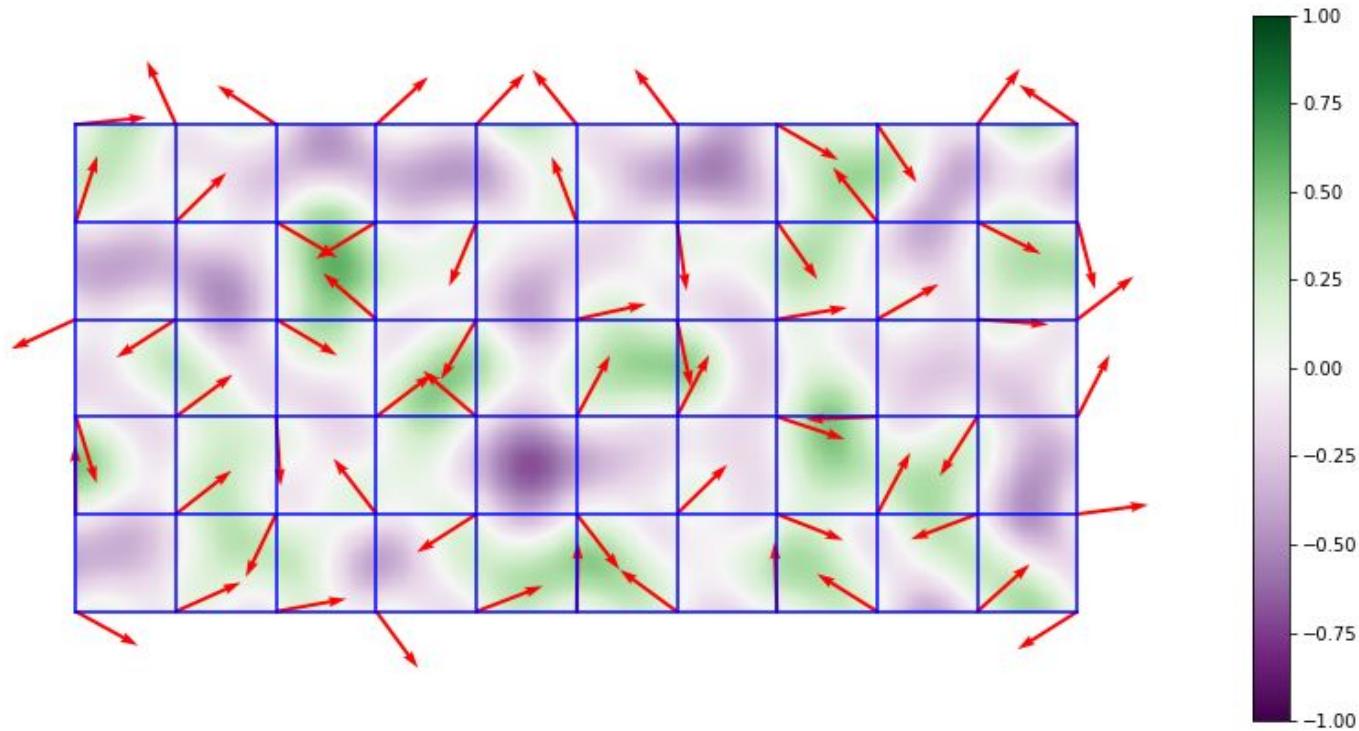


Algorithm



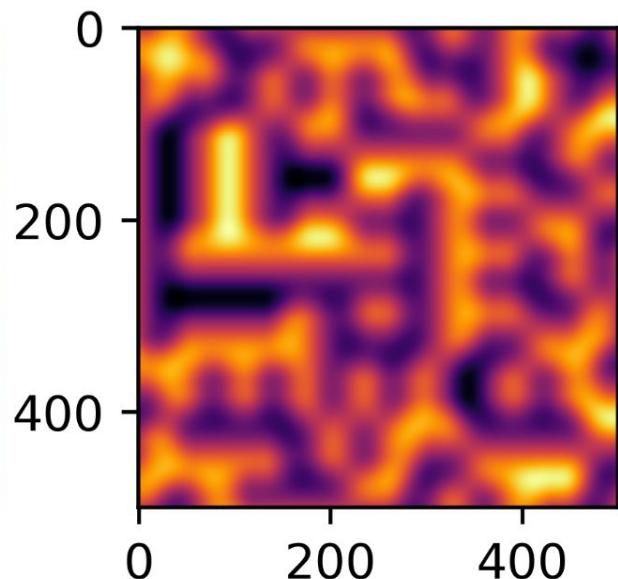
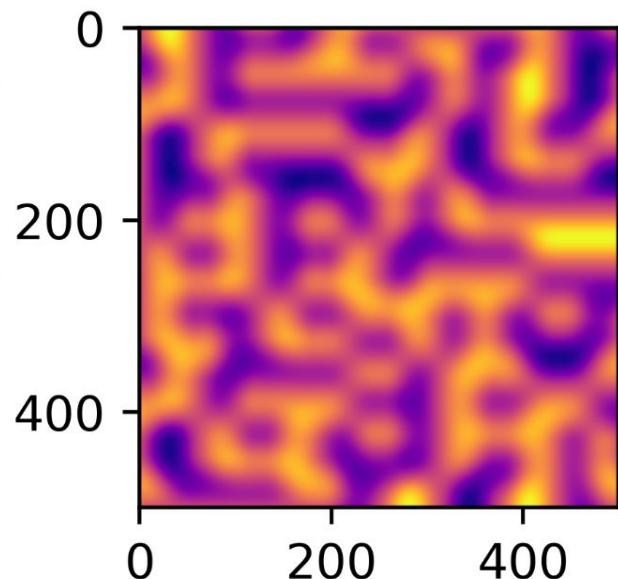
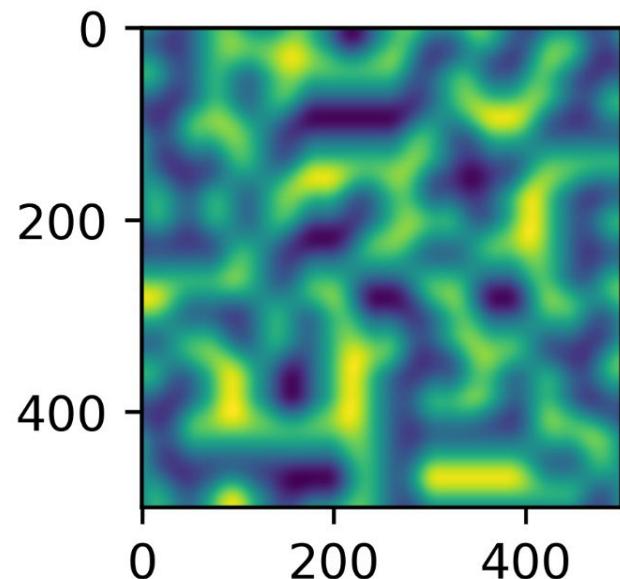


Interpolation



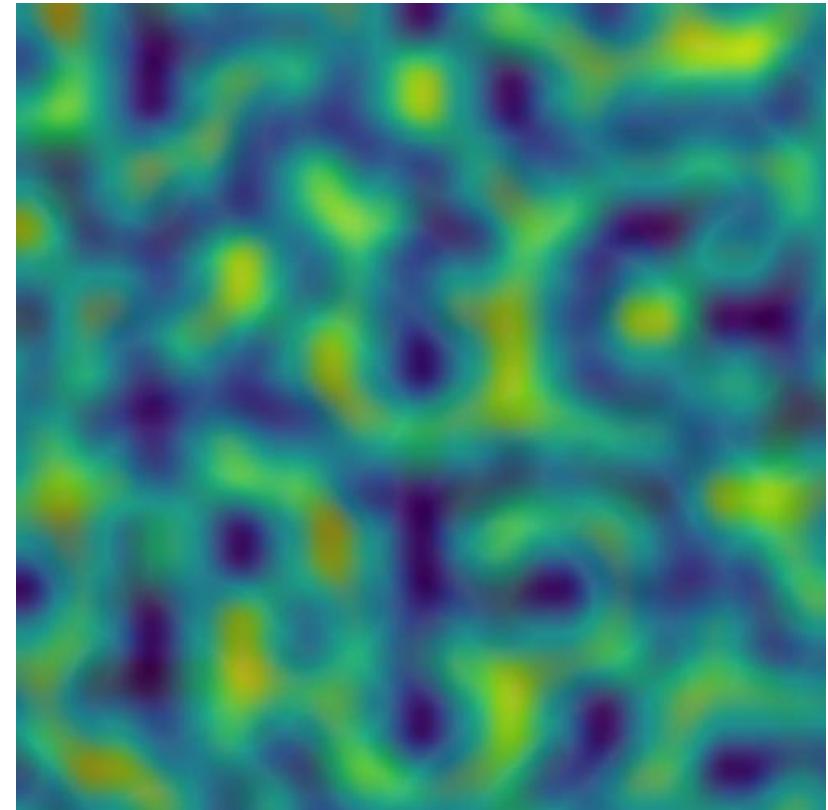
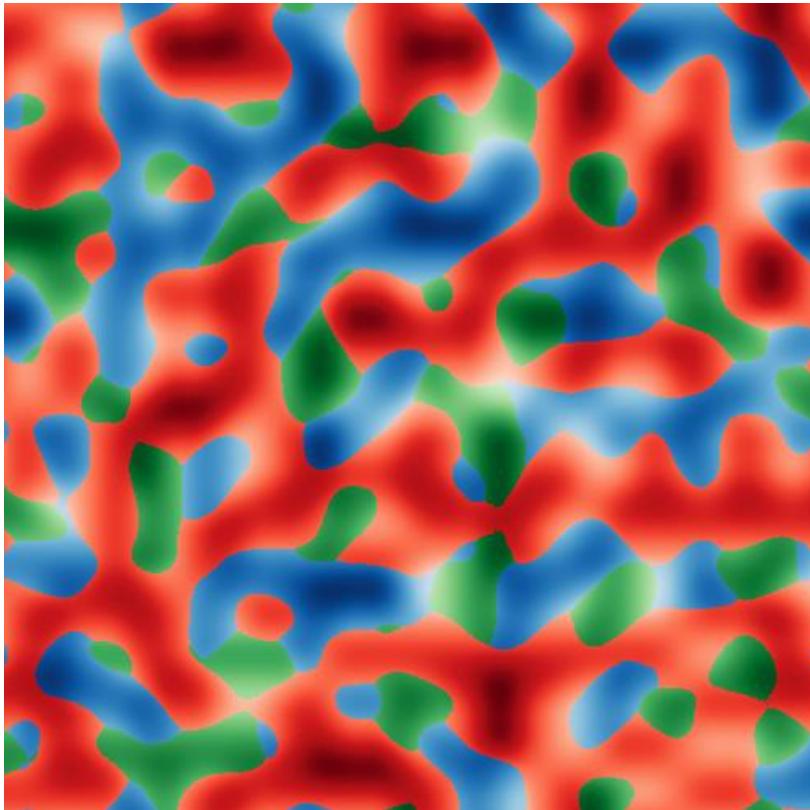


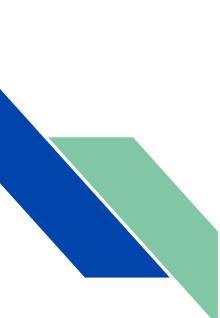
Perlin noise examples



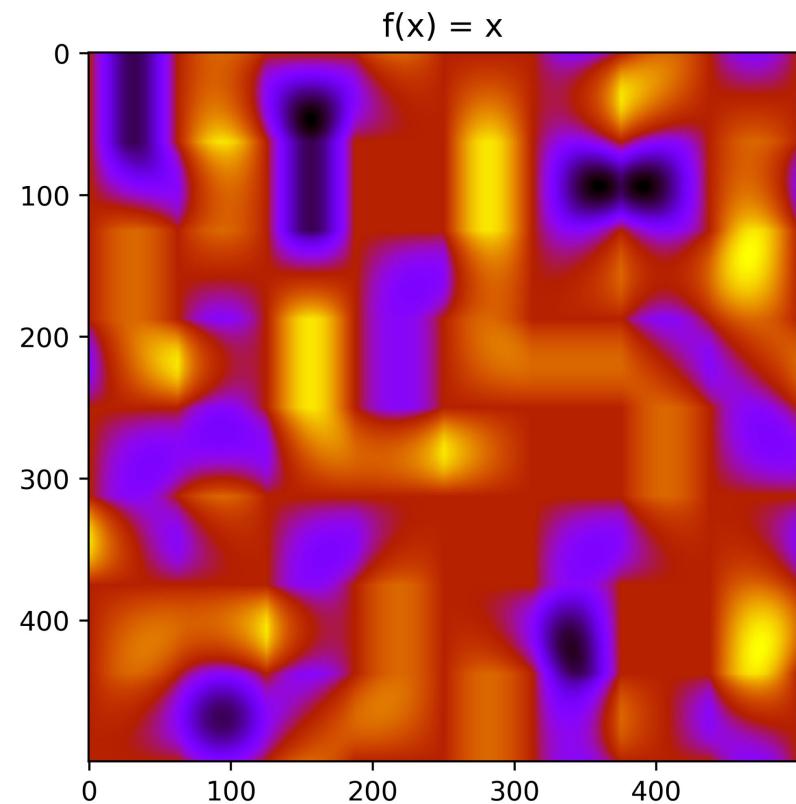
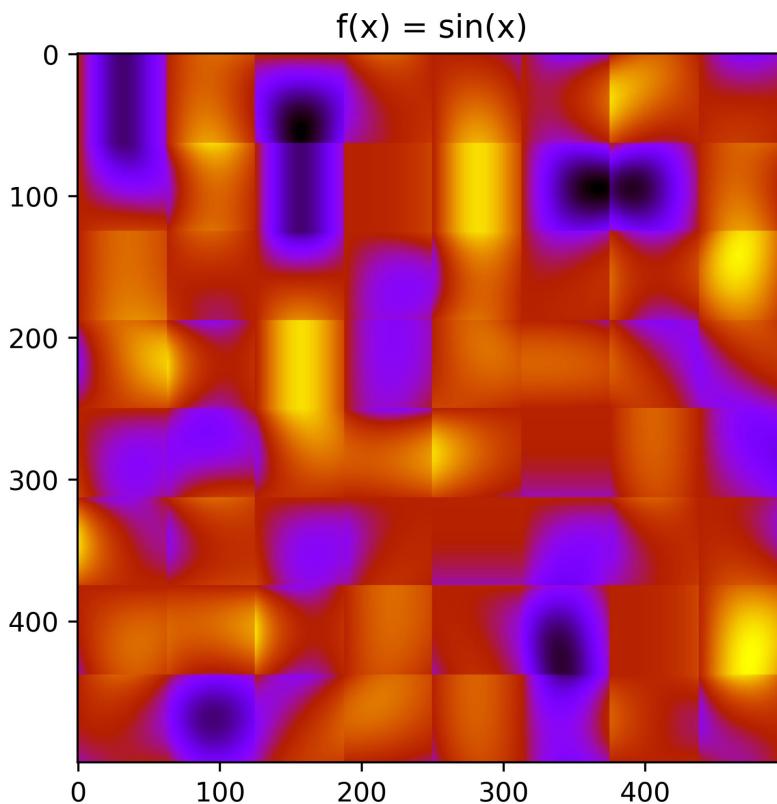


Noise combination, combining several heatmaps



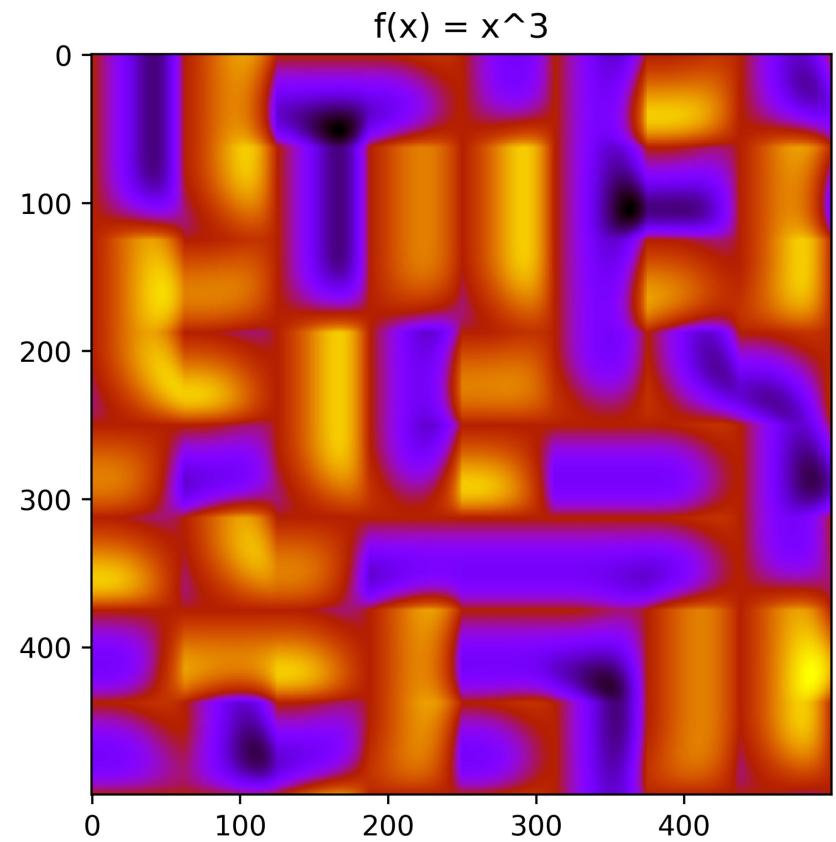
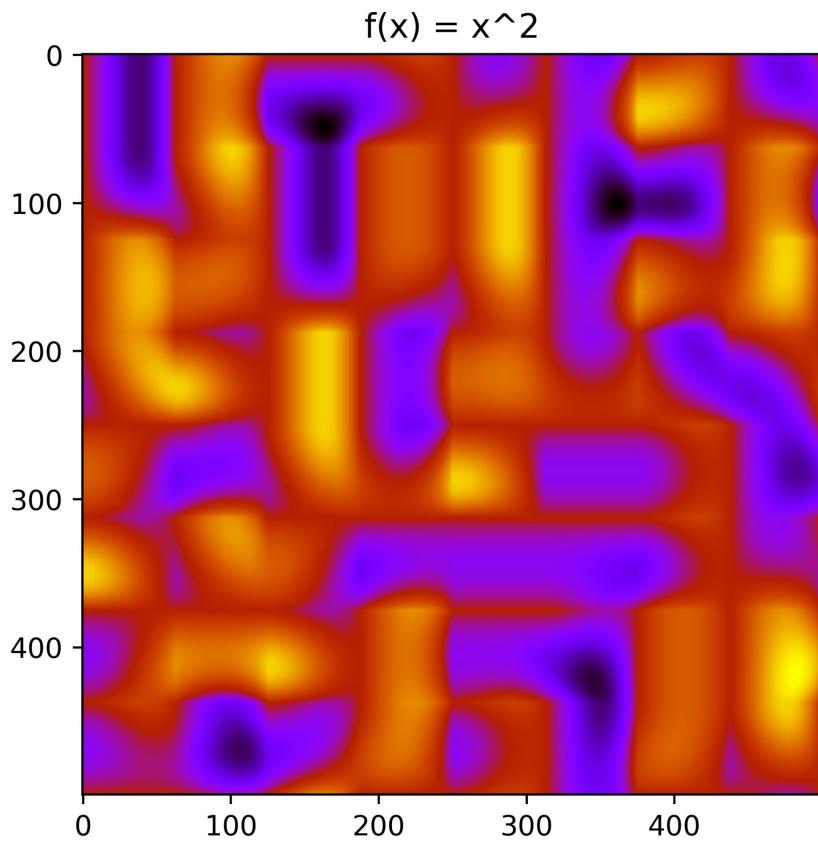


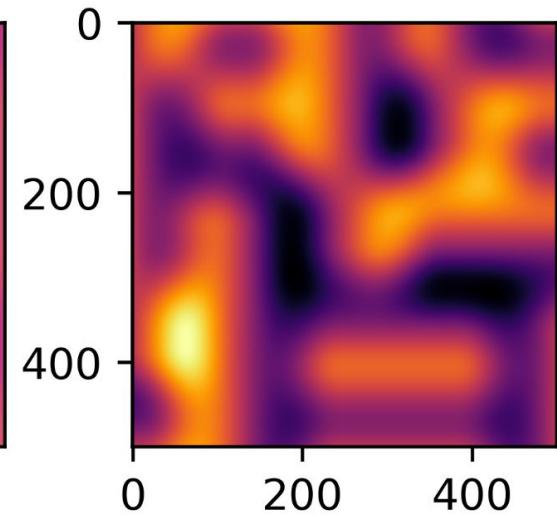
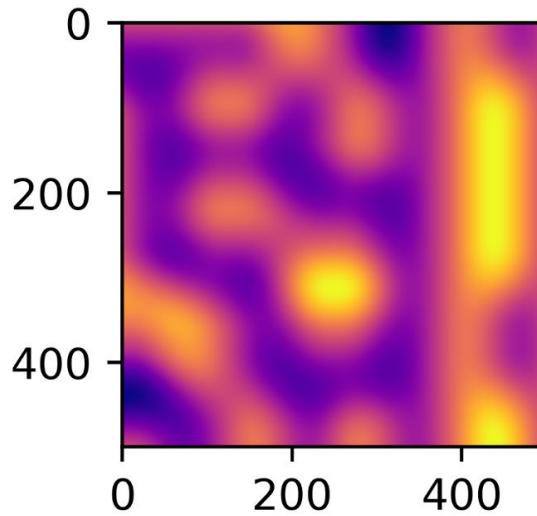
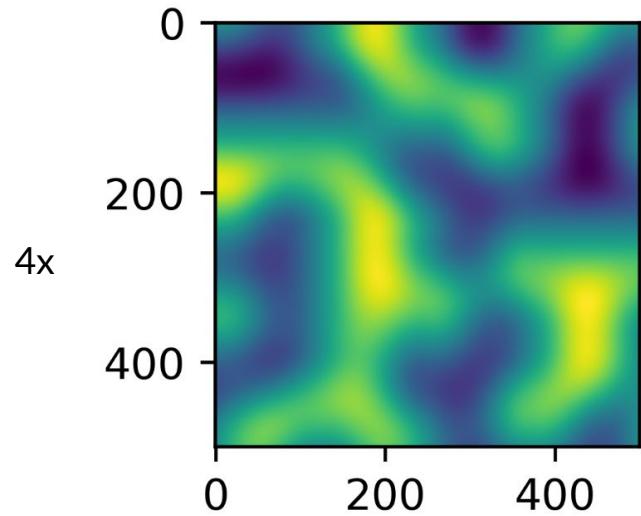
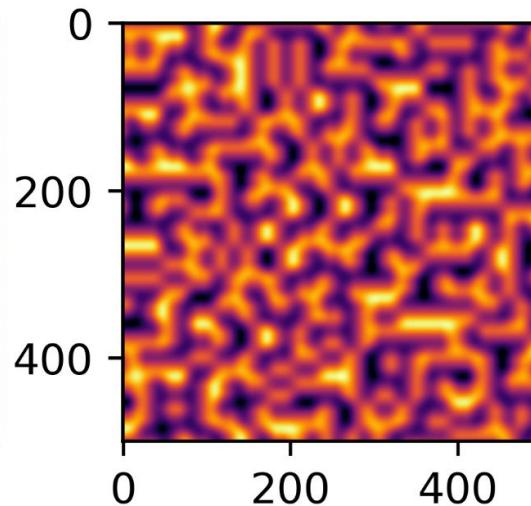
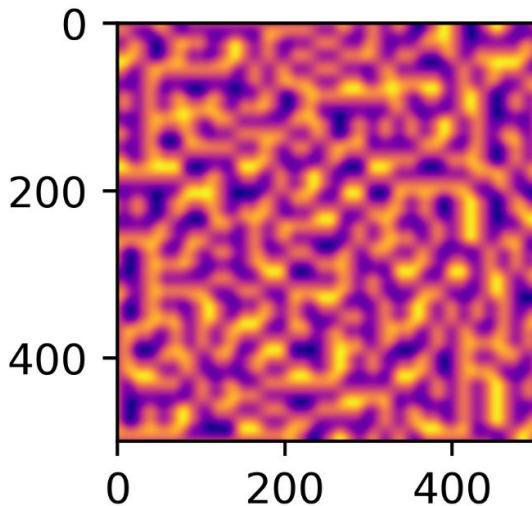
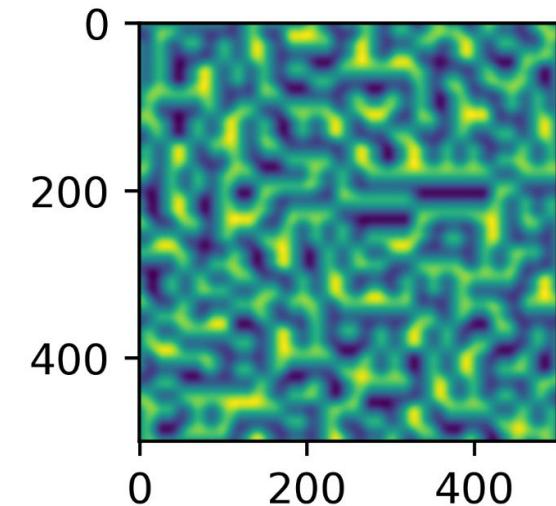
Value filtering(fading or smoothing)

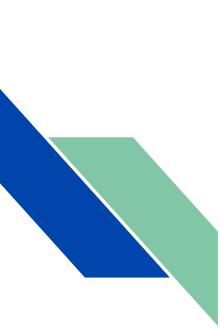




More filters...

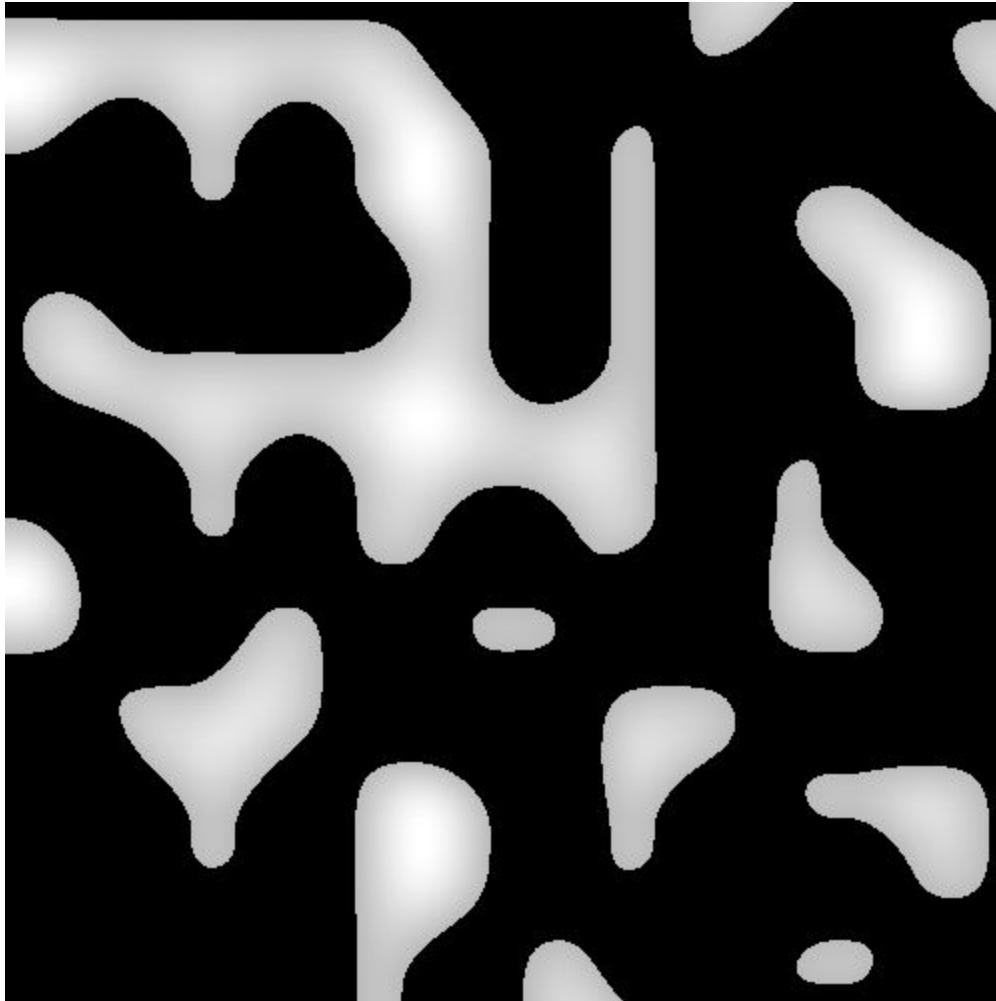


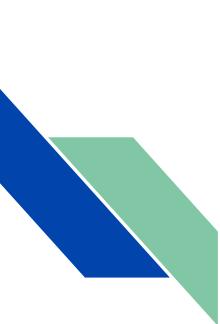




Map generation







Perlin worms and cave generation

