Gabriel Mañeru

#### World Generation

#### Main challenges:

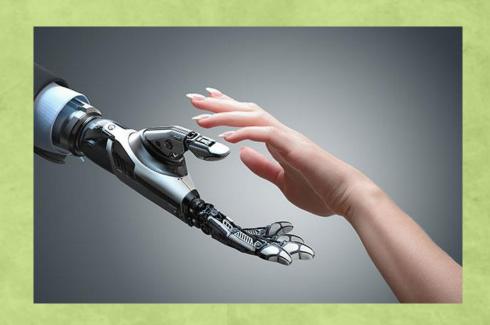
- Multiple iterations along production
- Managed by a lot of people

#### World Generation

#### Main challenges:

- Multiple iterations along production
- Managed by a lot of people

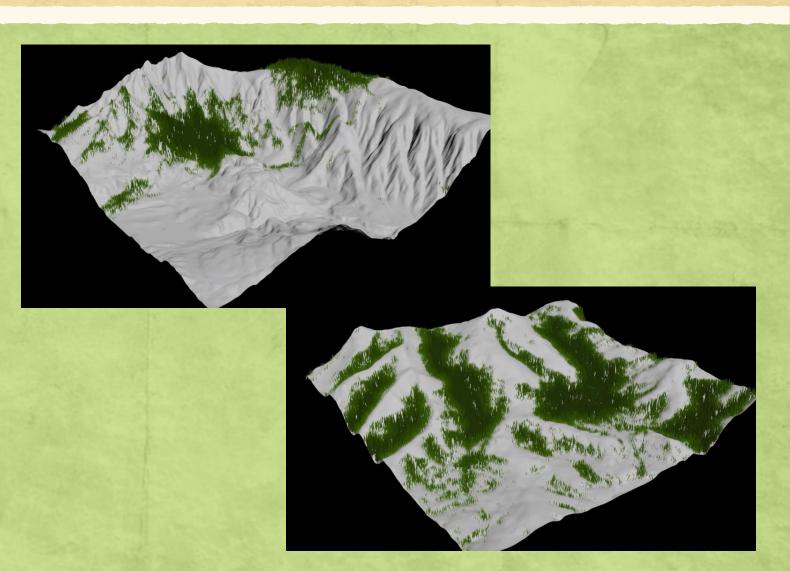
Let's introduce procedural AI!



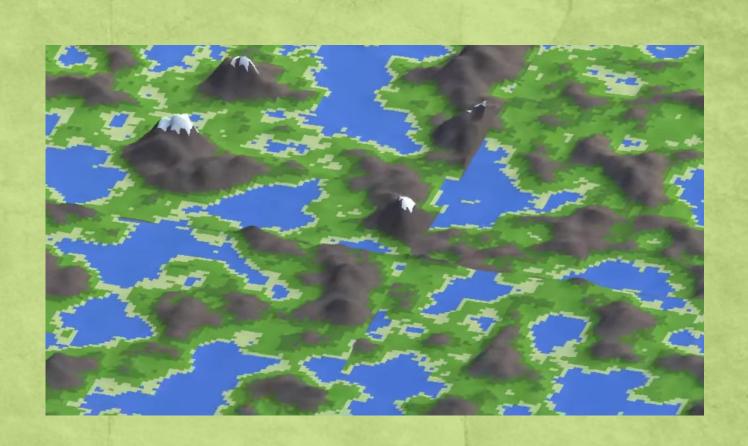
Fill up the World with nature



- Fill up the World with nature
- Consistent with topology



- Fill up the World with nature
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- Deterministic



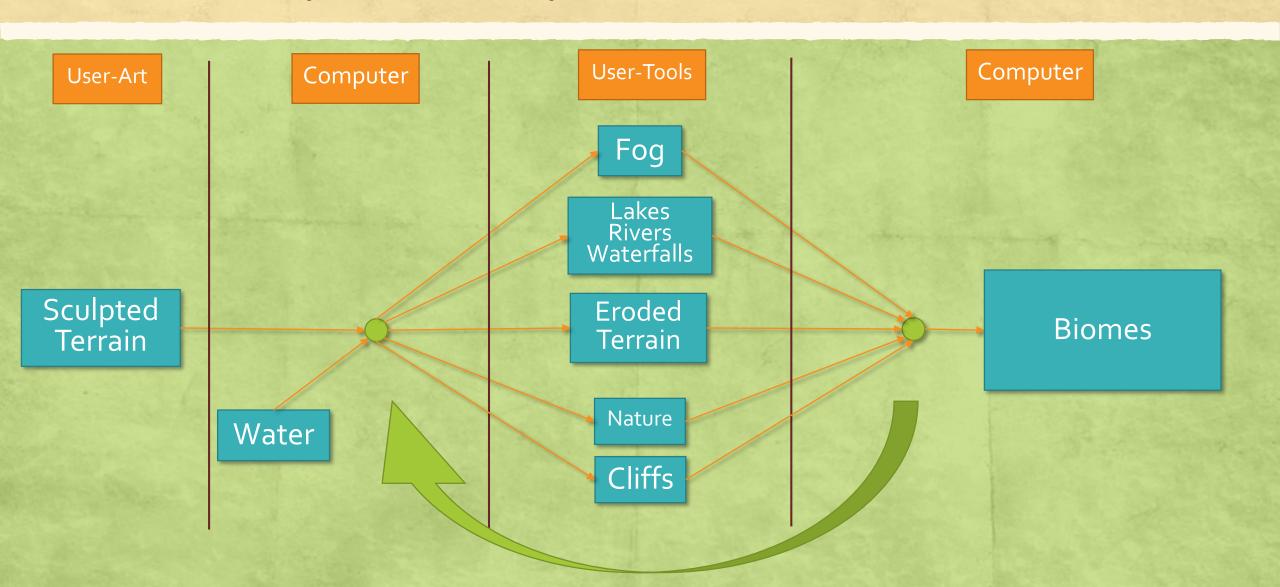
- Fill up the World with nature
- Consistent with topology
- Deterministic
- Automated
  - Powerful Engines & Machines
  - Updates fast (Nightly builds)



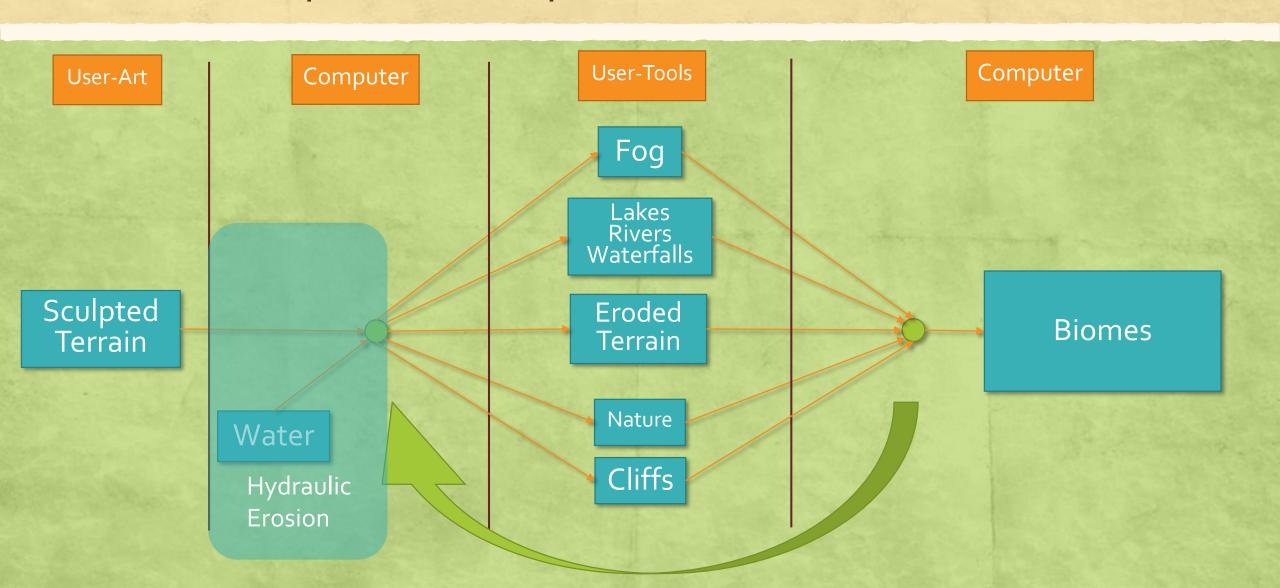
- Fill up the World with nature
- Consistent with topology
- Deterministic
- Automated
  - Powerful Engines & Machines
  - Updates fast (Nightly builds)
- All User Friendly



## Tool Pipeline Example

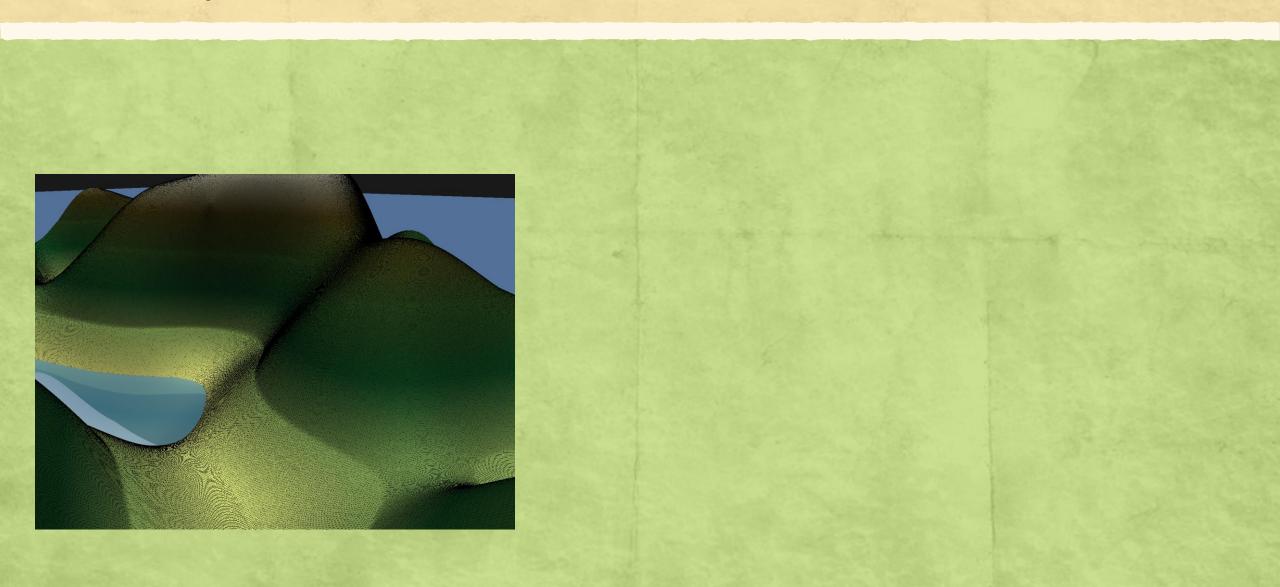


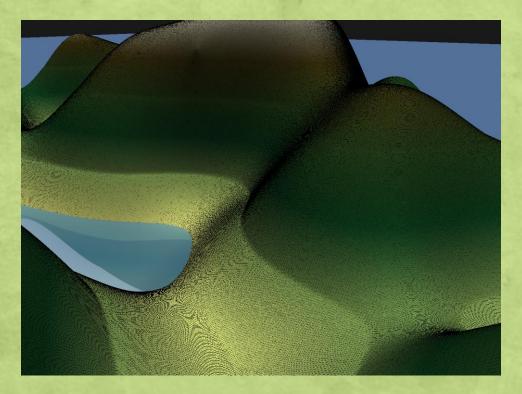
## Tool Pipeline Example



- Iteration:
  - Simulate a water drop (particle)
  - Let the drop go downhill following the surface gradient
  - Erode sediment when being in steep slopes
  - Deposit sediment in more planar surfaces
  - Evaporate over time

Iterate A LOT!

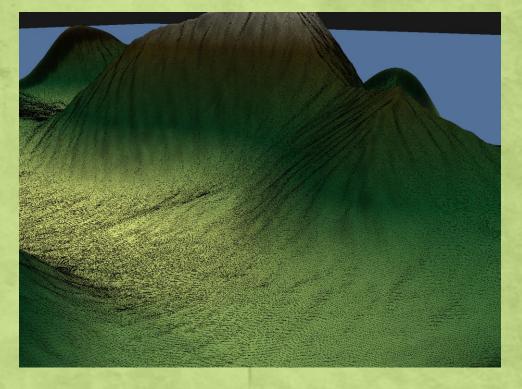






- Crispy Edges
- Ravines
- Flat Regions

After 3.000.000 iterations



## Map Examples

Fog / Humidity



River / Lake / Waterfall



# DEMO