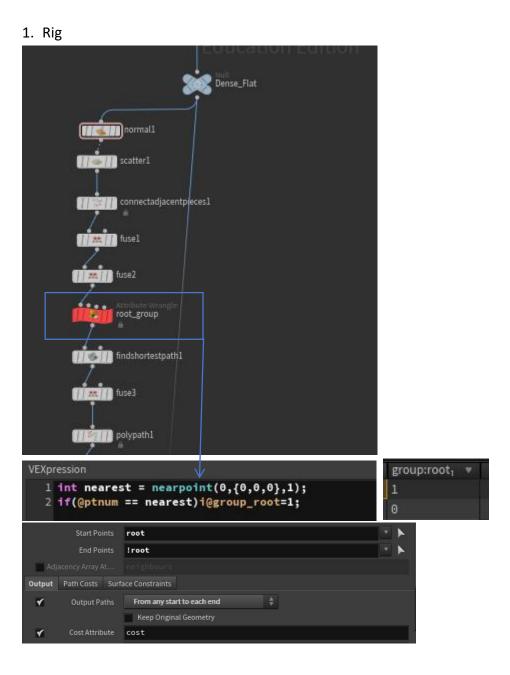
Breakdown | Growing - Procedural Plant growth Houdini Version: 19.5.605

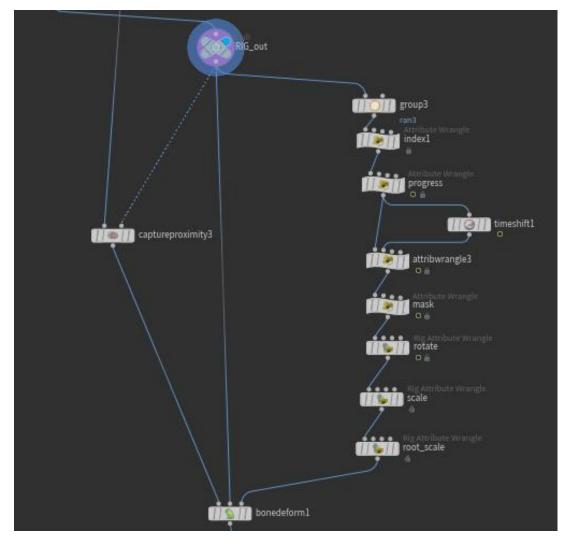
The project aims to utilize Houdini's KineFX to create procedural growth effects for plants, coupled with the height field function to generate procedural landscapes and distribute vegetation.

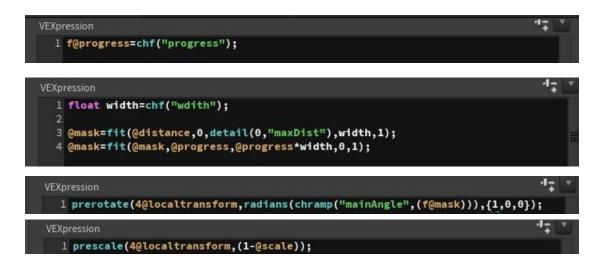


| fuse3 | Education Edi | | | |
|-------------------|---------------|---|---|-----------|
| polypath1 | | | | |
| root | | | | |
| orientalongcurve1 | | | | |
| rigdoctor1 | | | | |
| edgetransport1 | | Orientation along Curv Asset Name | e orientalongcurvel orientalongcurve 🛊 | * H Q O O |
| | | Curve Group Frame Tangent Type | Next Edge 🔶 | |
| distance | | Tangene Type | Make Closed Curve Orientations Continuous Extrapolate End Tangents Transform Using Point Attributes | |
| | RIG_out | Target Up Vector | Y Axis | |
| | | Additional Rotations | | |

| Edge Transport edge | transport1 | * | H | Q | 1 | 1 |
|---------------------|--|---|----|---|---|---|
| Asset Name | | | | | | |
| Method | Edge Network 🔺 | | | | | |
| Point Group | | | | | | • |
| Attribute | distance | | | | | |
| Direction | | | | | | |
| Root Choice | Group 🖕 | | | | | |
| Root Group | root | | | | | • |
| Operation | | | | | | |
| | ✓ Integrate a Constant Value | | | | | |
| | Scale by Edge Length | | | | | |
| Edge Split Method | Copy 🛔 | | | | | |
| | | | | | | |
| Stribute Promote at | tribpromotel | * | H, | Q | ٢ | 0 |
| Asset Name | | | | | | |
| Original Name | distance | | | | | |
| Original Class | | | | | | |
| New Class | Detail 🗍 | | | | | |
| Piece Attribute | | | | | | |
| Promotion Method | Maximum 🗍 | | | | | |
| | 🖌 Change New Name | | | | | |
| New Name | maxDist | | | | | |
| | Delete Original | | | | | |
| | | | | | | |

2. Growth Animation





| Group | root | | × 🕨 |
|-------------|------------------|---|----------------|
| Group Type | Guess from Group | | |
| Run Over | Points | ŧ | |
| VEXpression | | | 4 . |

This node combination can be assembled onto any plant model to achieve growth effects, providing diversity through parameter adjustments.

Tutorial Reference:

https://www.sidefx.com/houdini-hive/houdini-hive-paris-2023/#massive Flower Garden by Carl Krause