# Procedural generation of plants

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# Why you need this?

Trees are very complex objects
Their growth is determined by a set of biological laws
It's very hard to create such model manually
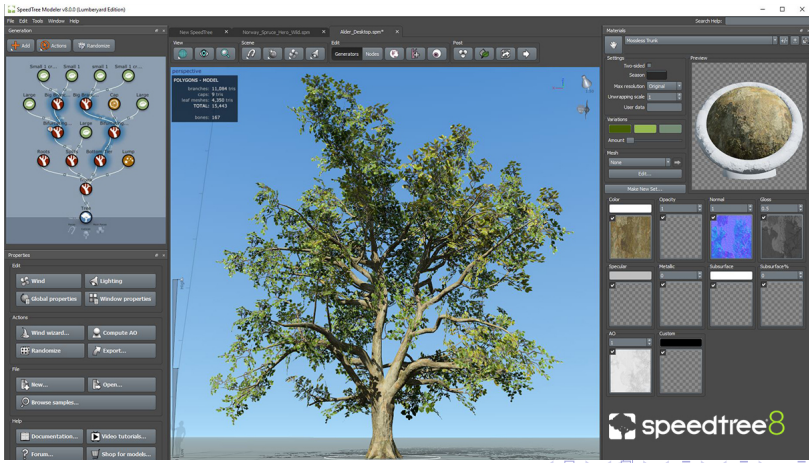We usually need many different trees

# Main approached

Single plants generation vs Ecosystem simulation
Interactive modeling vs Autonomous procedures vs
Reconstruction from scans
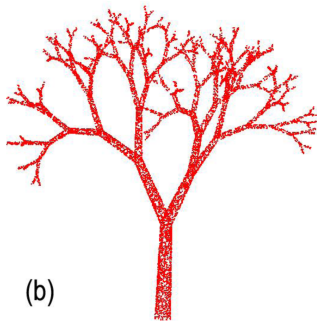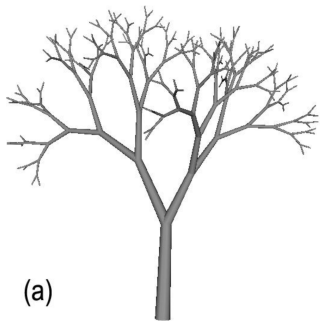
# Interactive modeling

Semi-manual process
Artist has a high control over the process

# Reconstruction

The landscape is scanned with LIDAR Computer vision methods are used to create point cloud A tree structure can be reconstructed from it



(a)          (b)

# The end

Thank you for your attention!