Sorghum Procedural Descriptor

Overview:

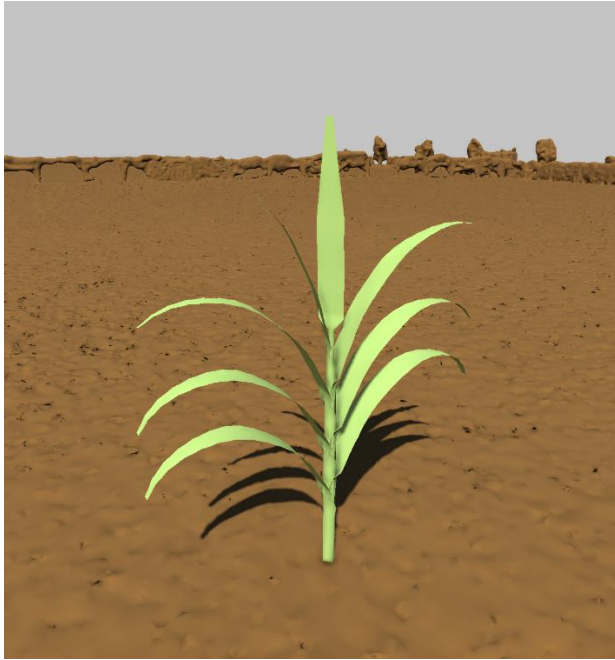|	
8	Leaf count
▼ Leaf waviness	
1.000	Max waviness
▶ Waviness curve	
2.500	Max waviness period
▶ Waviness period curve	
▼ Leaf width	
0.100	Max stem width
▶ Stem width curve	
0.200	Max leaf width
▶ Leaf width curve	
▶ Leaf width decrease starting point	
▼ Leaf length	
3.500	Stem length
0.300	First Leaf Starting Point
10.000	Max leaf length
▶ Leaf length curve	
0.000	Max leaf length variance
▶ Leaf length variance curve	
▼ Leaf angle	
50.000	Max branching angle
▶ Branching angle curve	
0.000	Max branching angle variance
▶ Branching angle variance curve	
10.000	Max roll angle variance
▶ Roll angle variance curve	
▼ Leaf bending	
4.000	Max bending
▶ Bending curve	
0.000	Max bending variance
▶ Bending variance curve	
1.000	Max bending increase
▶ Bending increase curve	
0.000	Max bending increase variance
▶ Bending increase variance curve	

About node editor:

For most parameters, the settings are actually the combination of "Max value" and a curve. This combination allows us to have full control of the variation of the parameters for different leaves along the same sorghum. Below is an example of how curve affect the length of different leaves from a single sorghum:
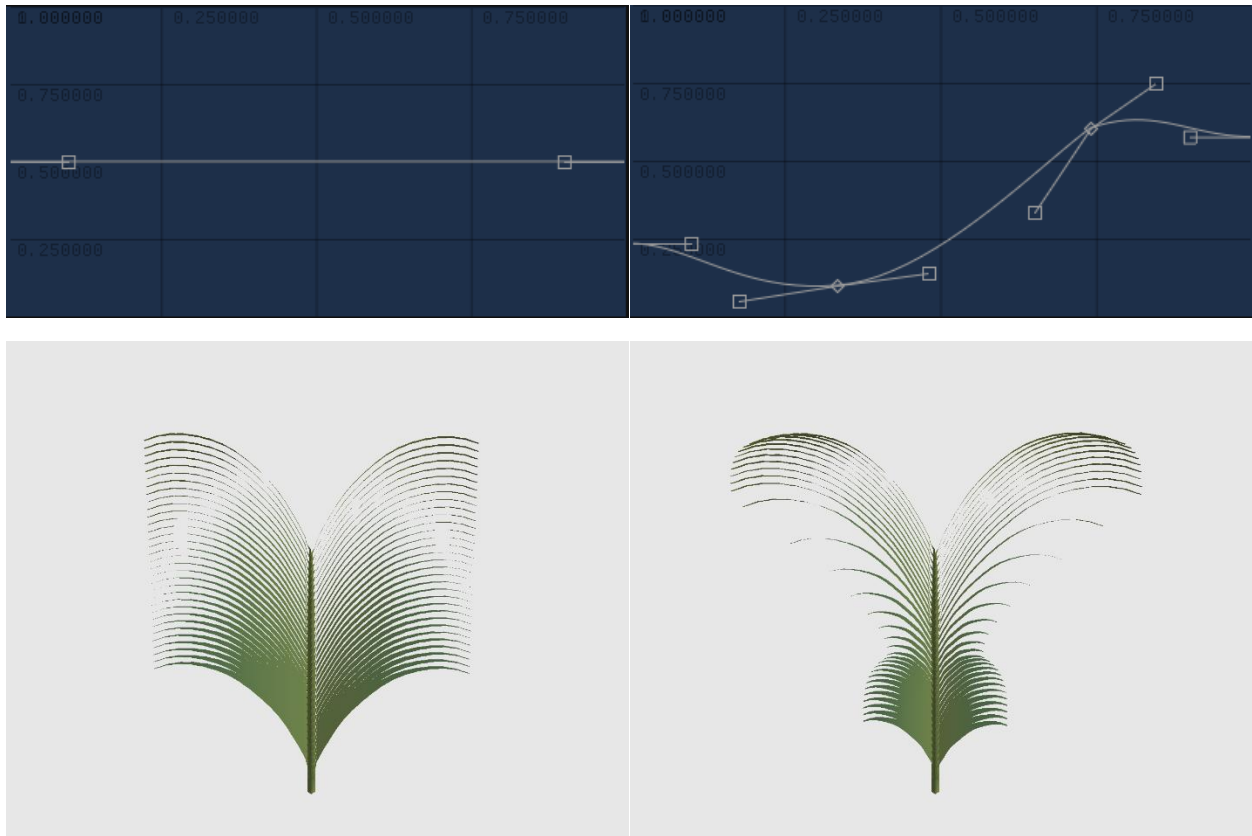
The max value in settings is equivalent to 1.0 in the curve editor. One should firstly setup the maximum value for all leaves and then adjust the curves for single leaves.

Leaf count:

Comparison between 8 and 10:
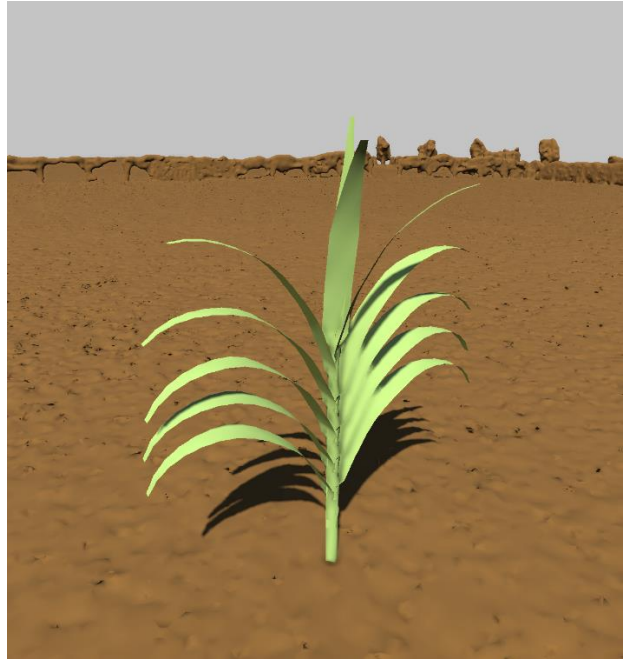
Waviness:

Comparison between 1 and 10:
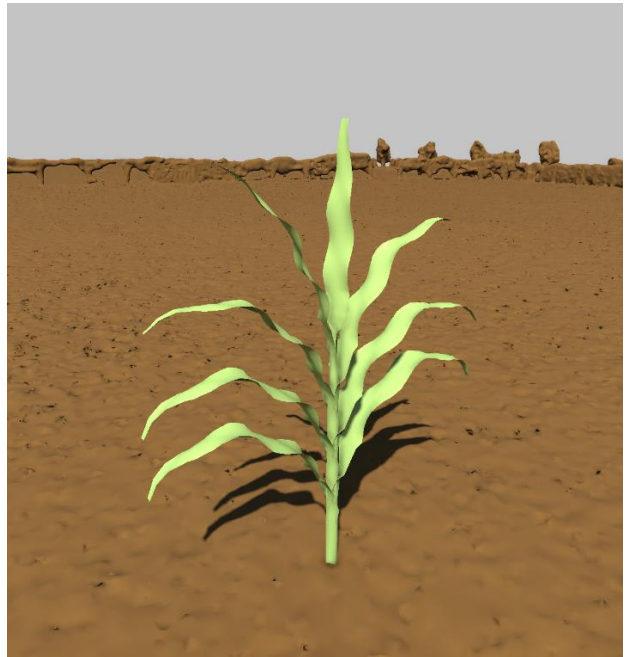
Waviness Period:
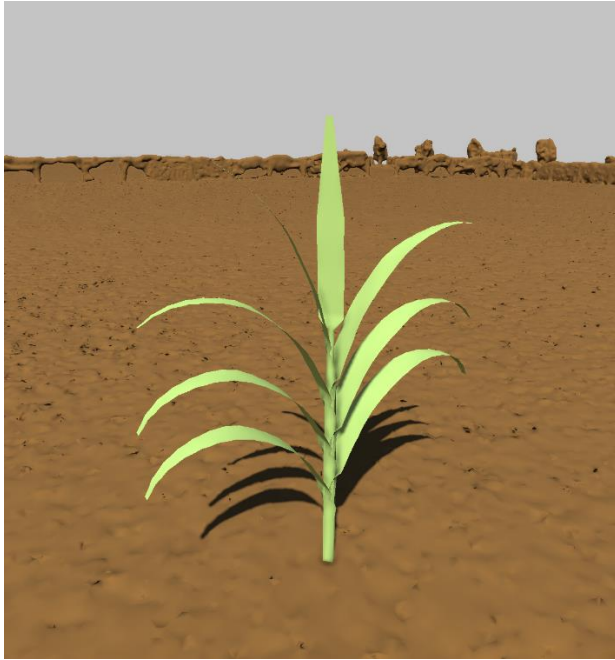
Comparison between 2.5 and 6.
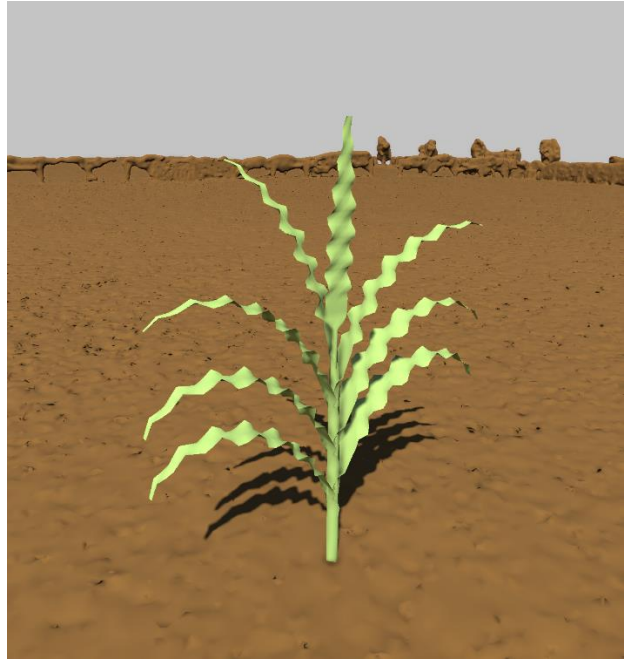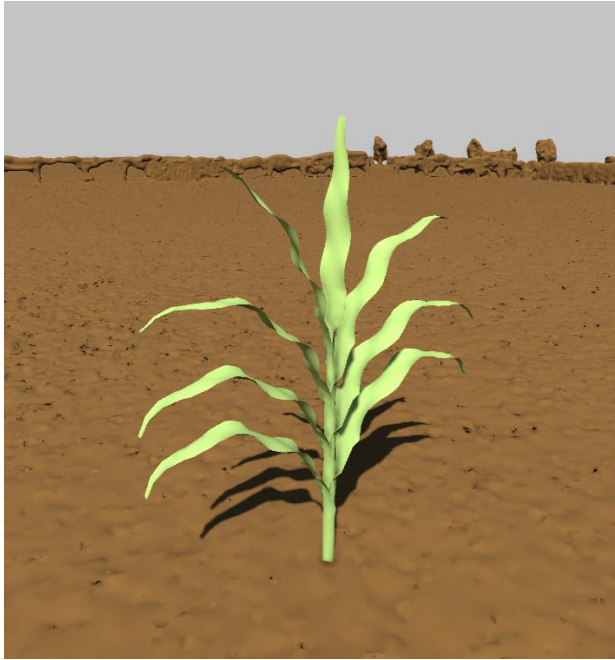
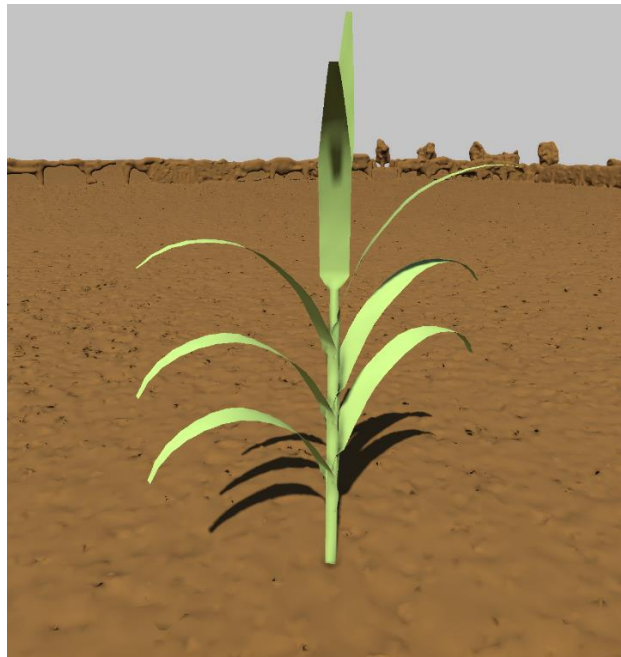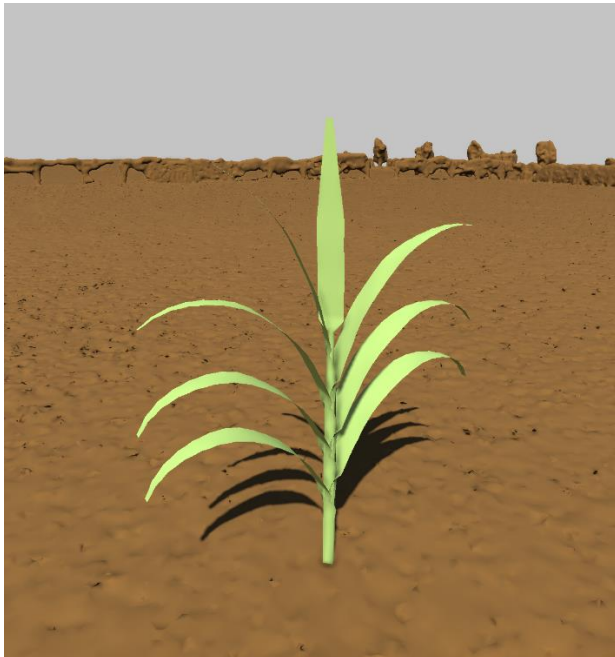Stem width:

Comparison between 0.1 and 0.15:
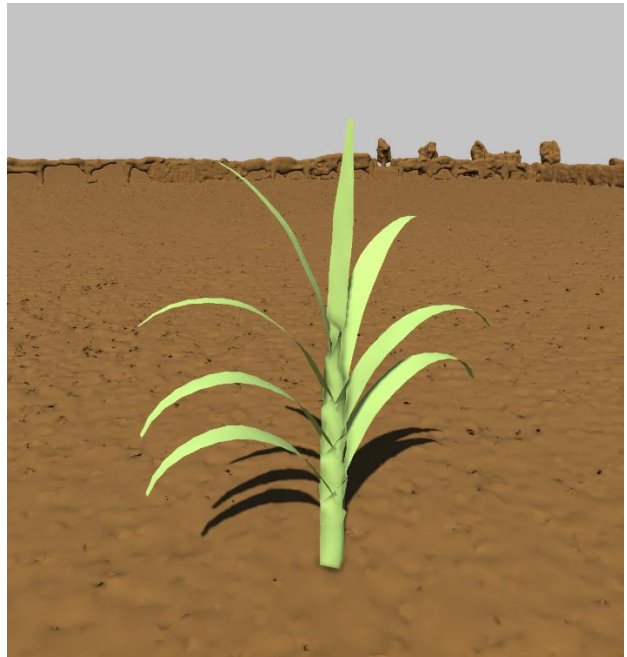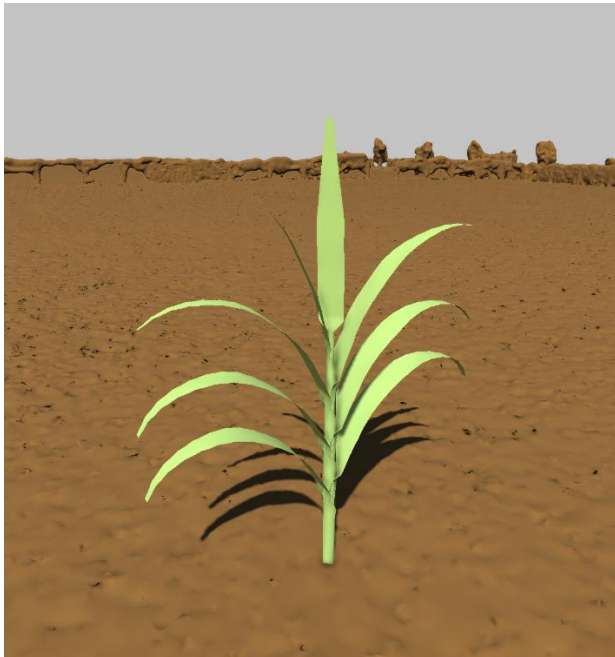
Leaf width:

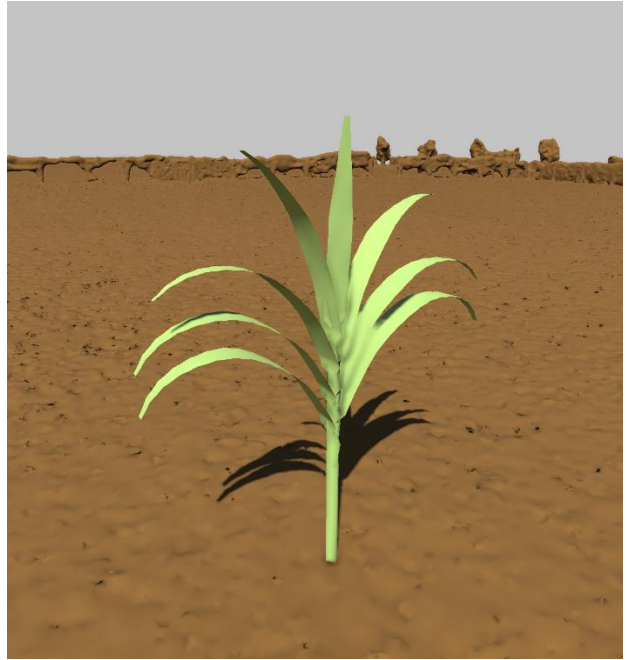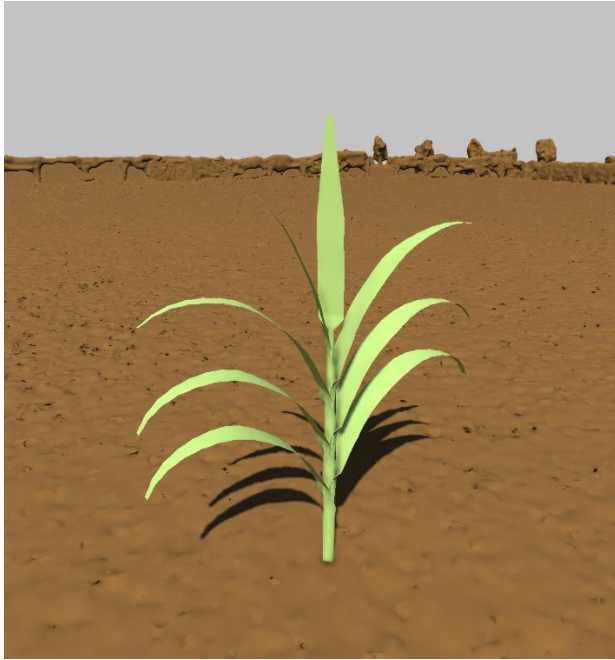Comparison between 0.2 and 0.5:
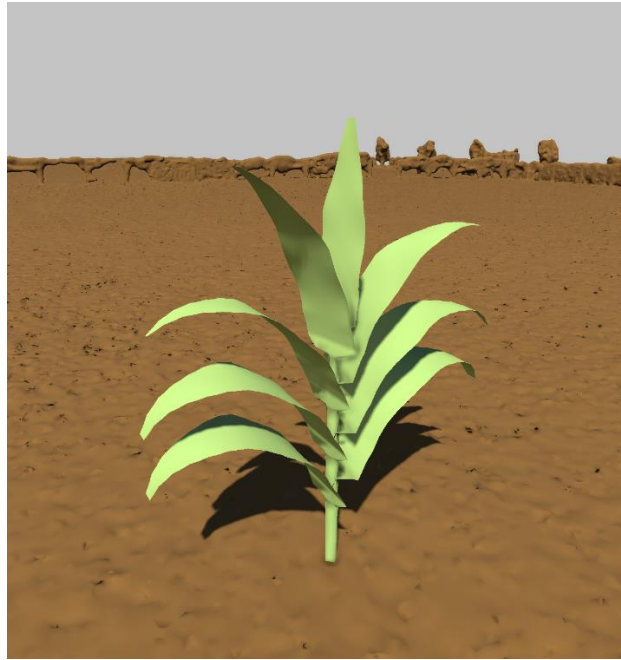
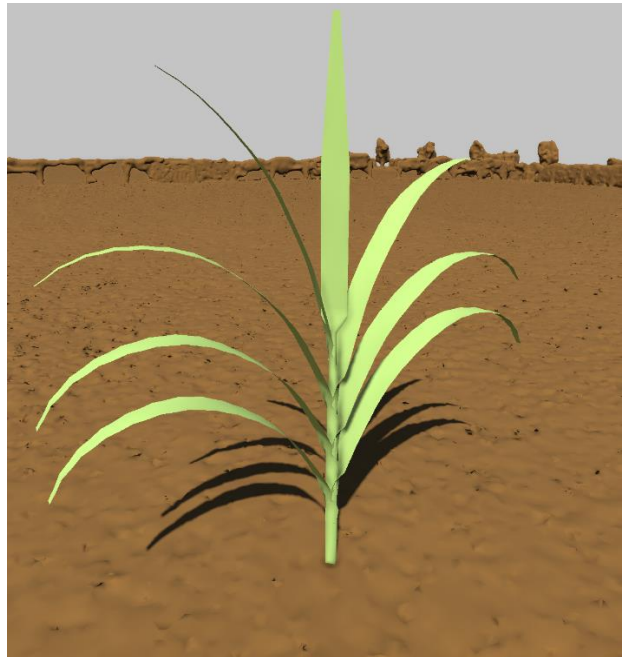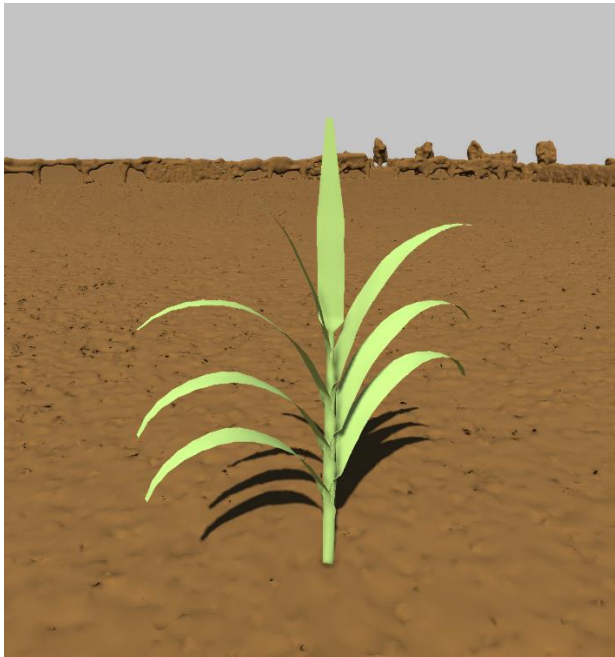Stem length:

Comparison between 3.5 and 4.5:

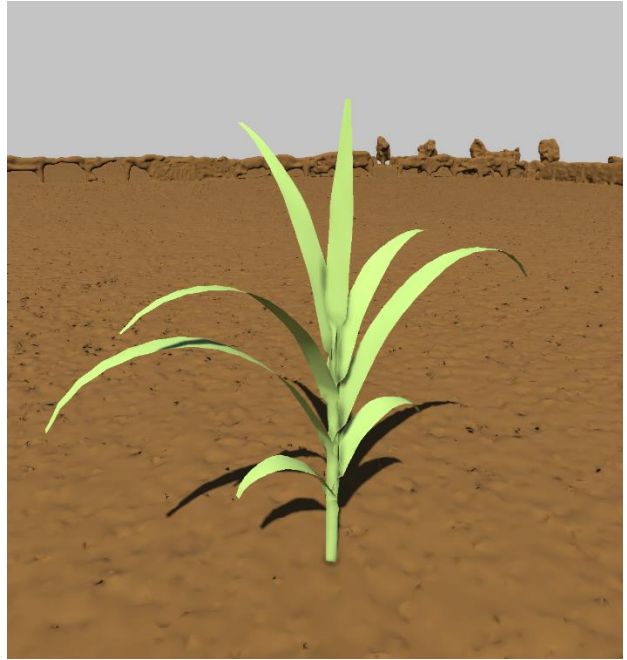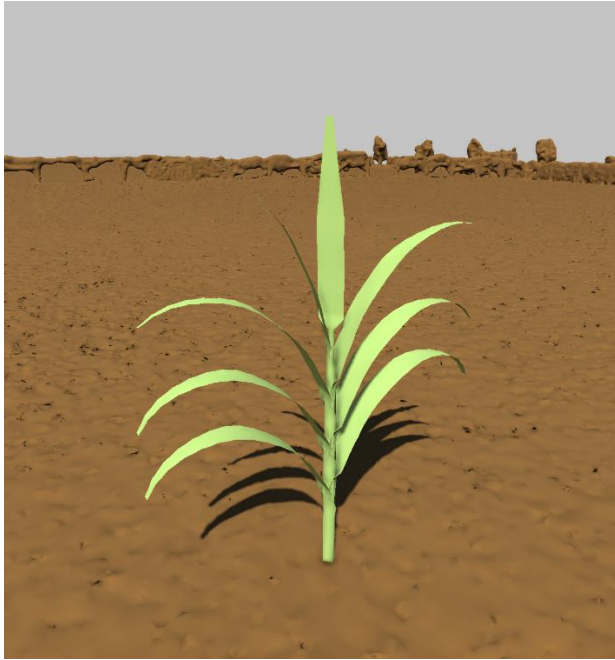First leaf starting point:

Comparison between 0.3 and 0.45:

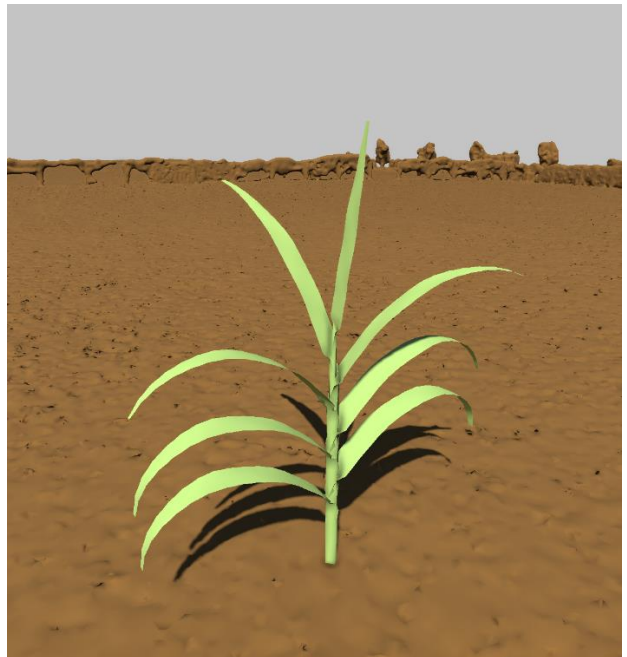Leaf length:
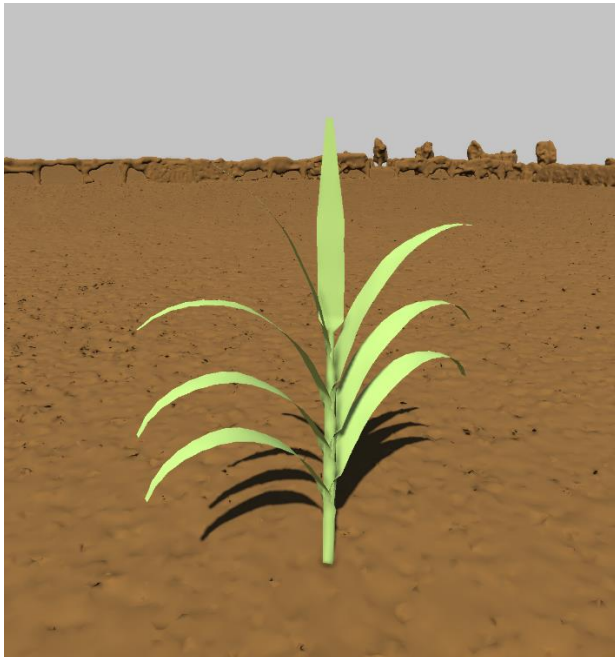
Comparison between 10 and 20:

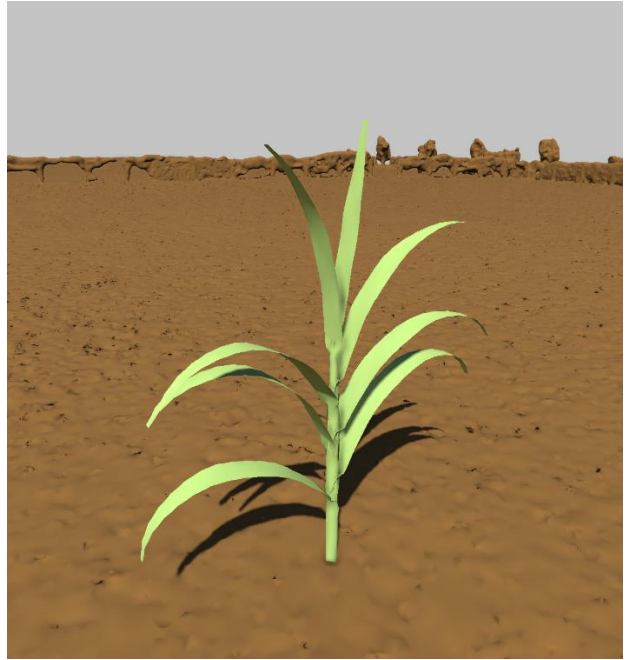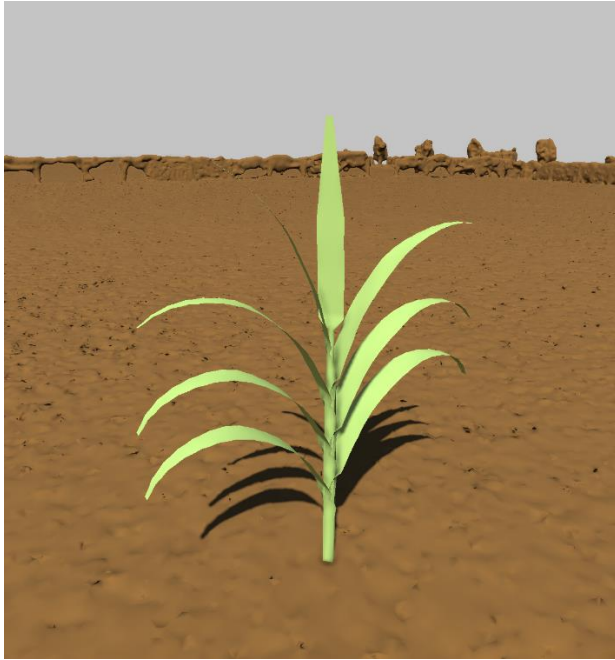Leaf length variance:

Comparison between 0.0 and 2.0:

Branching angle:

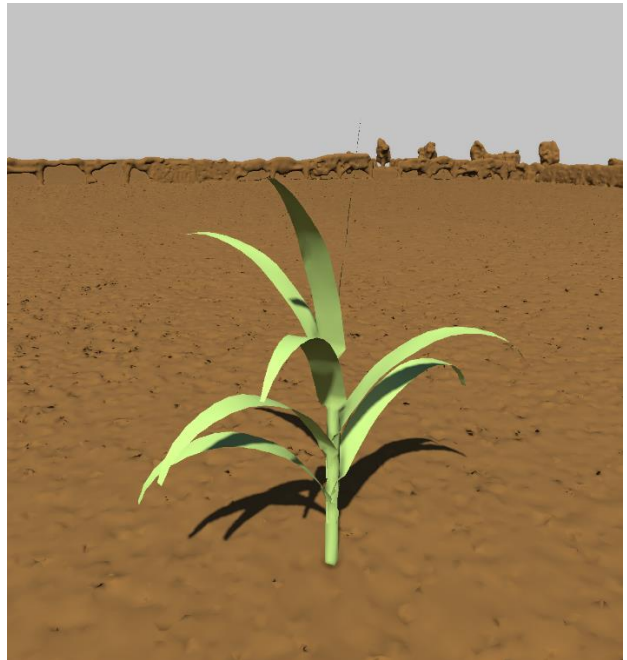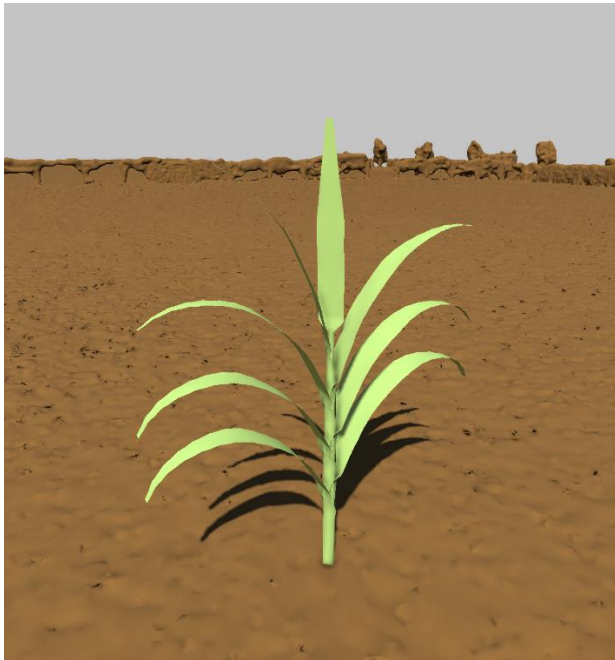Comparison between 50 and 90:

Branching angle variance:
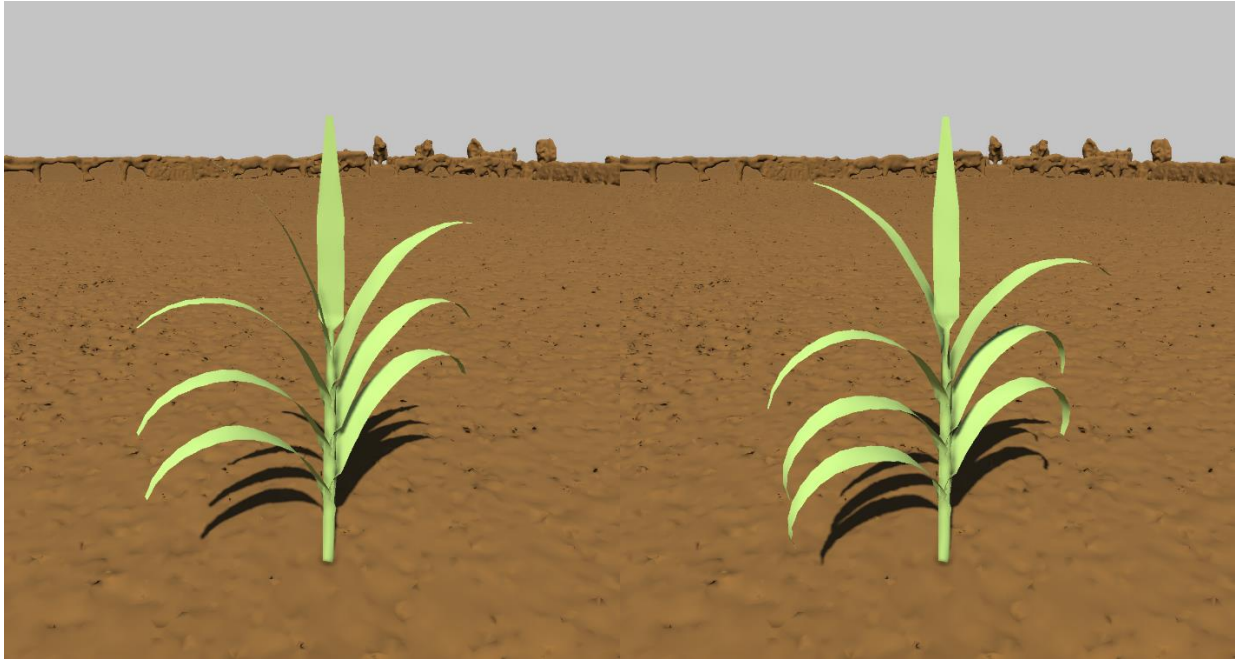
Comparison between 0.0 and 5.0:

Roll angle variance:
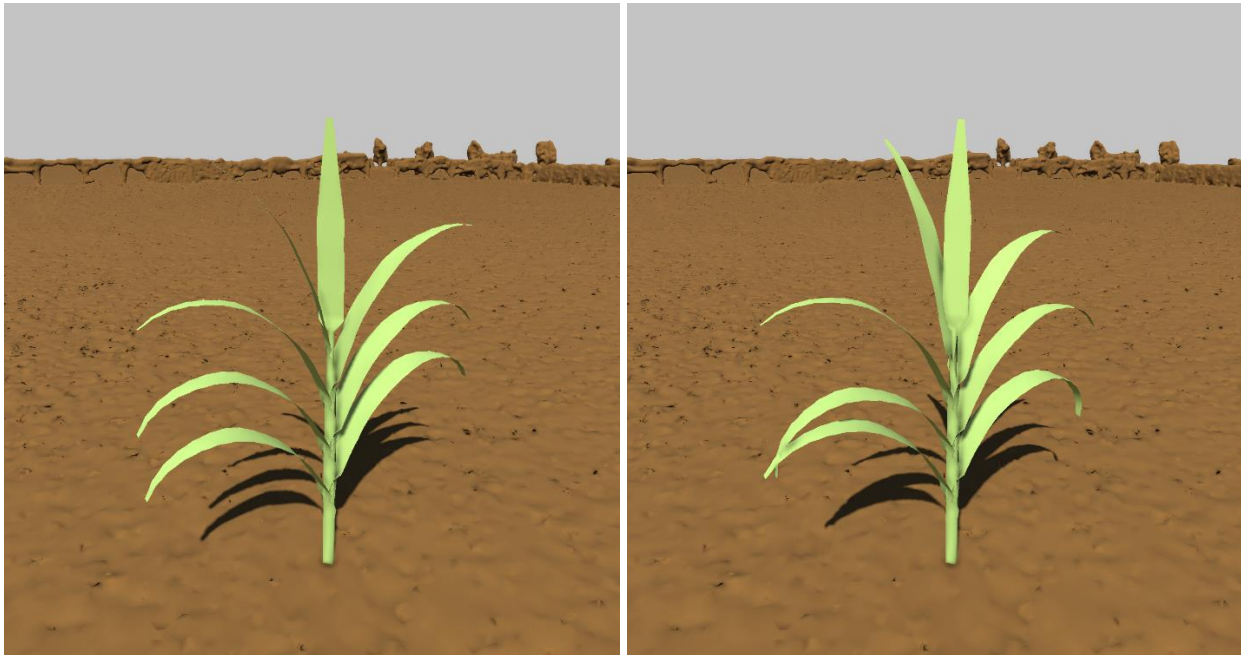
Comparison between 10.0 and 20.0:

Bending (Note: Negative means the leaf will bend upwards):
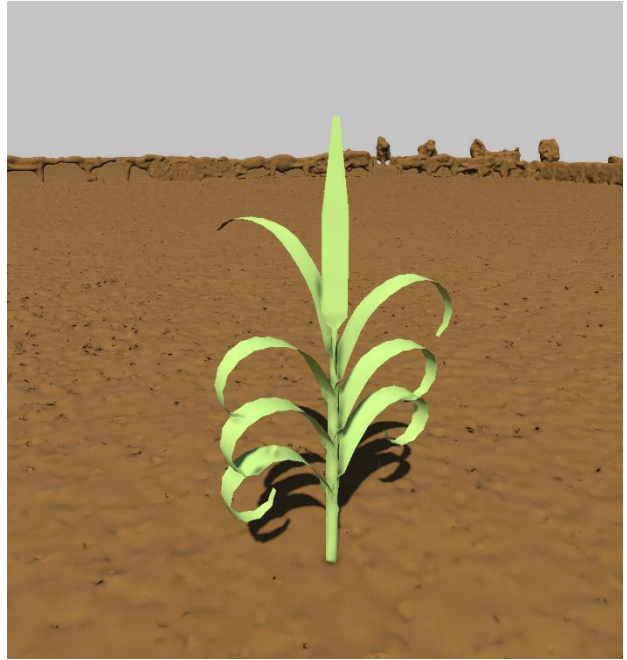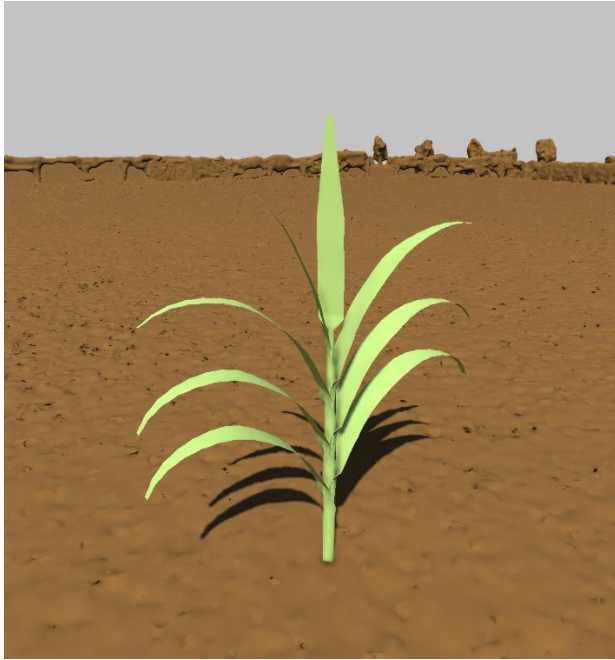
Comparison between 4 and 10:

Bending variance:

Comparison between 0.0 and 2.0:

Bending increase (Note: Negative may cause the leaf to be like "S" shape):

Comparison between 1.0 and 3.0:

Bending increase variance:

Comparison between 0.0 and 1.0: