Slajd tytuł:

Hello everyone, today we prepared presentation about our take on the flower development project.

(nastepny slajd)

We decided to create and model Carpinus betulus or in polish grab pospolity.

On the right side we can see real life examples. How It looks with leaves and without. Moreover there is example of just leaves too.

On the next slide (następny slajd) we can see our finished model of the tree in different seasons. We decided to simulate growth of the tree and its branches and then add leaves to it. Leaves naturally changes color and density over time.

(nastepny slajd)

Here we can look at animations of our tree growth and change of it over different seasons.

(nastepny slajd)

Now it will be good time to show how it all works behind scenes. To start with we will show code for production and then for homorphism

(nastepny slajd)

As we can see in our code A and C stands for branch production rules and branch module, thanks to helpful comments we can clearly see where branches are being created and how.

K stands for leaves and T for trunk module. We had to code some noise to leaves so we make that there is 25% change for leaf to not mature. In trunk module we slightly curve it.

(nastepny slajd)

Now its time for homorphism

(nastepny slajd)

Main thing here is k module so we can change color and size of leaves over time to simulate different seasons.

(nastepny slajd)

Finally we can show some stats. We focused on thing that changes the most so we naturally choose leaves.

(nastepny slajd)

On a video we can see how many are there leaves in different colors in time.

(nastpeny slajd)

Here we show how amount of leaves changes over time in a graph form.

We clearly see the momet the season change we get more and more different leaves, and then it all ends without any of them