

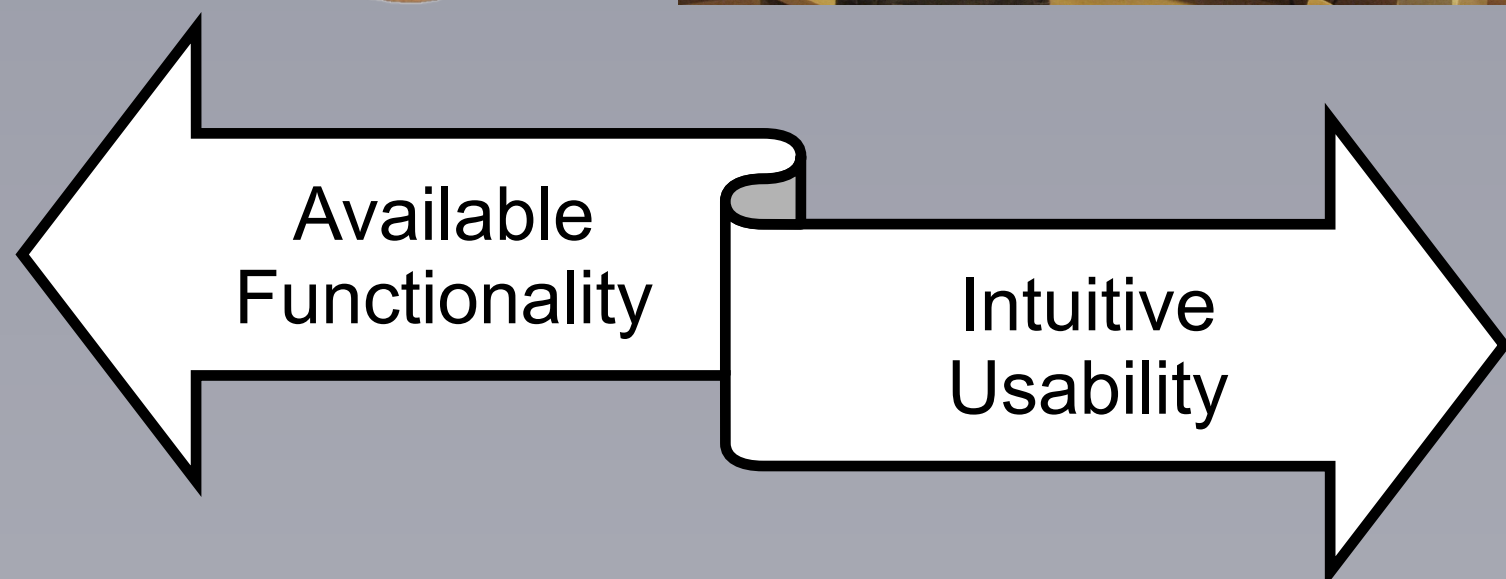
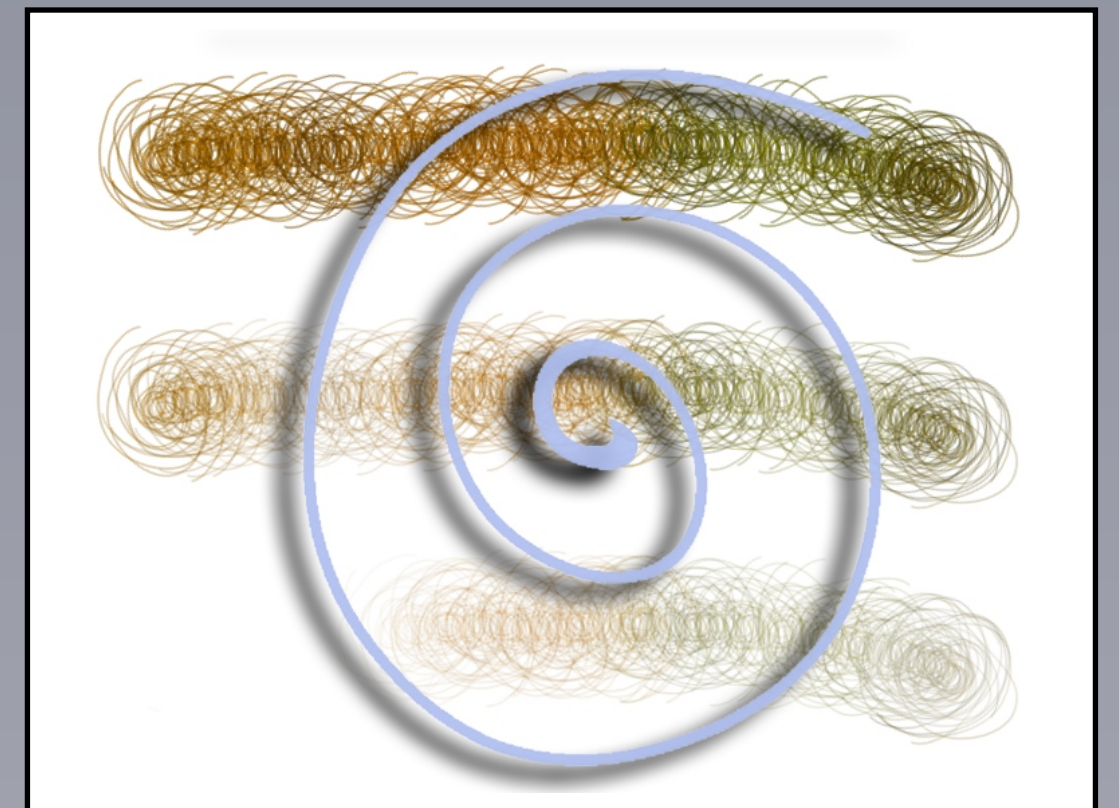
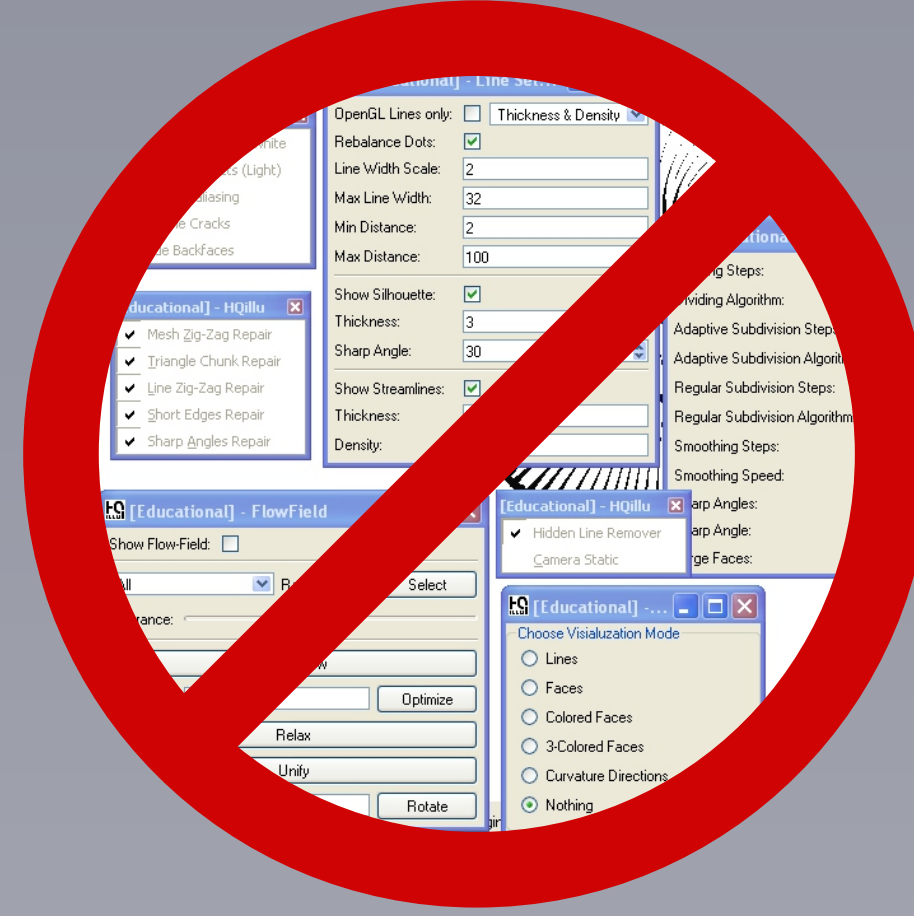
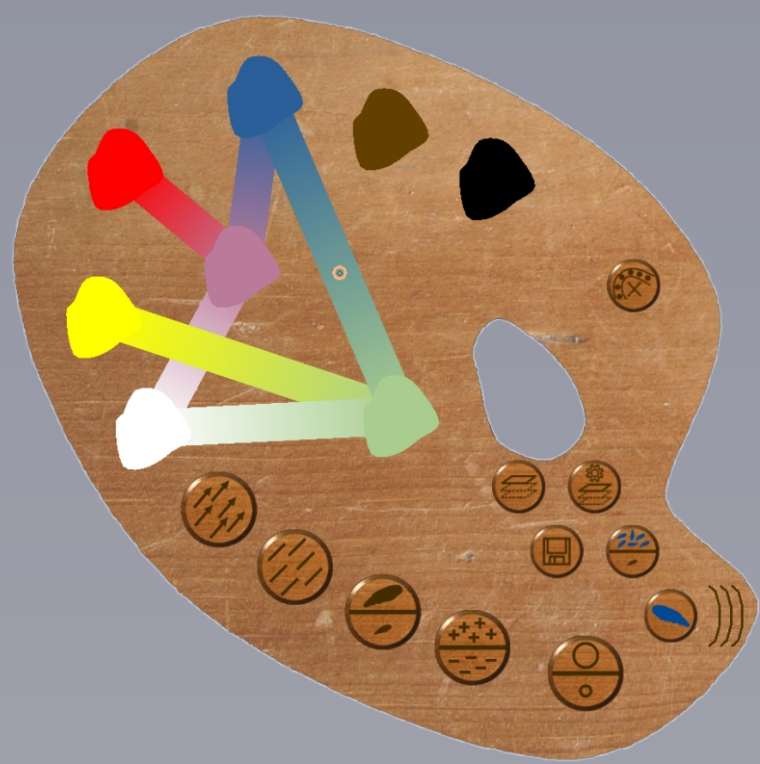


Interactive Stroke-Based NPR using Hand Postures on Large Displays



Jens Grubert¹ Sheelagh Carpendale¹ Tobias Isenberg^{1,2}
¹University of Calgary, Canada ²University of Groningen, Netherlands

Motivation

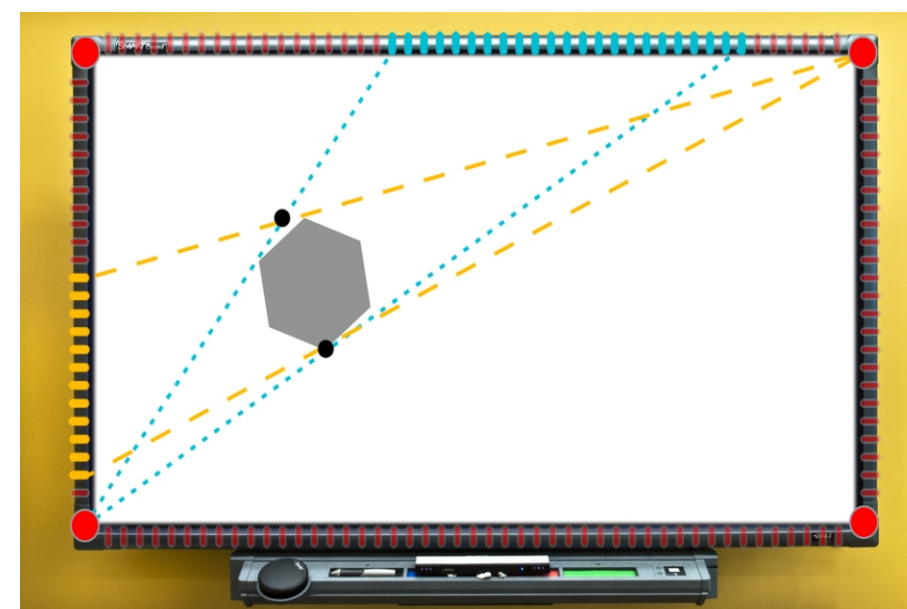
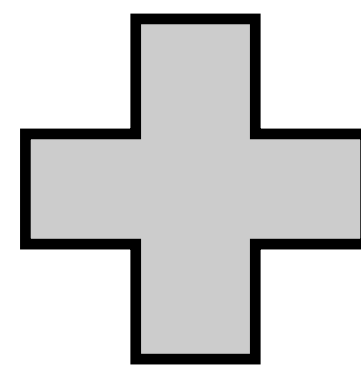


Expressive and
Intuitive Interaction

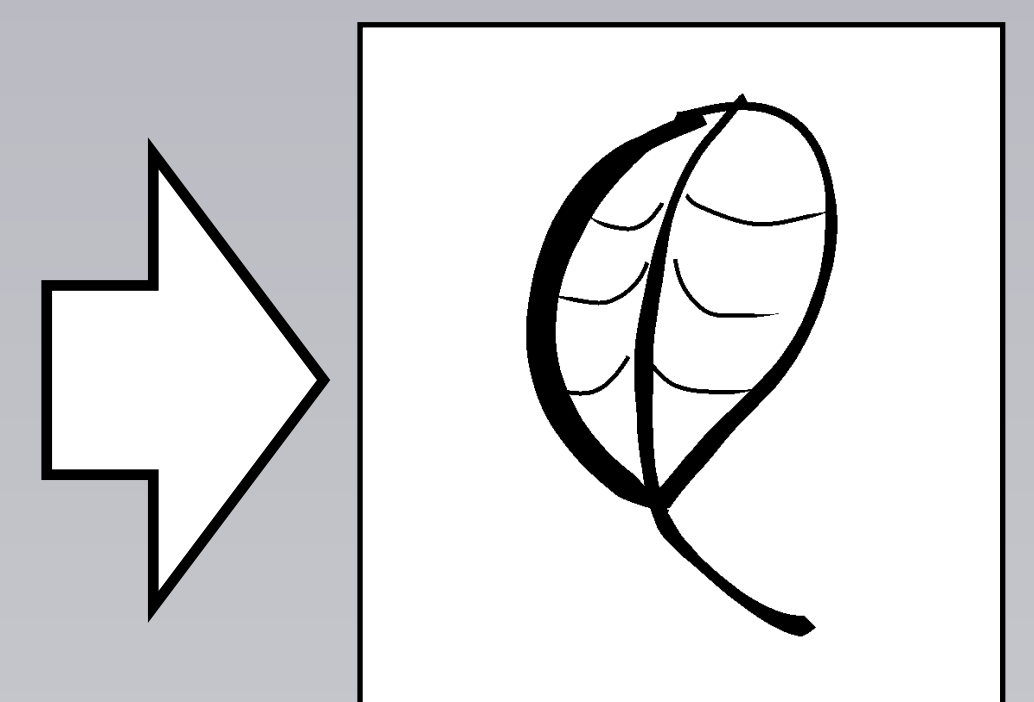
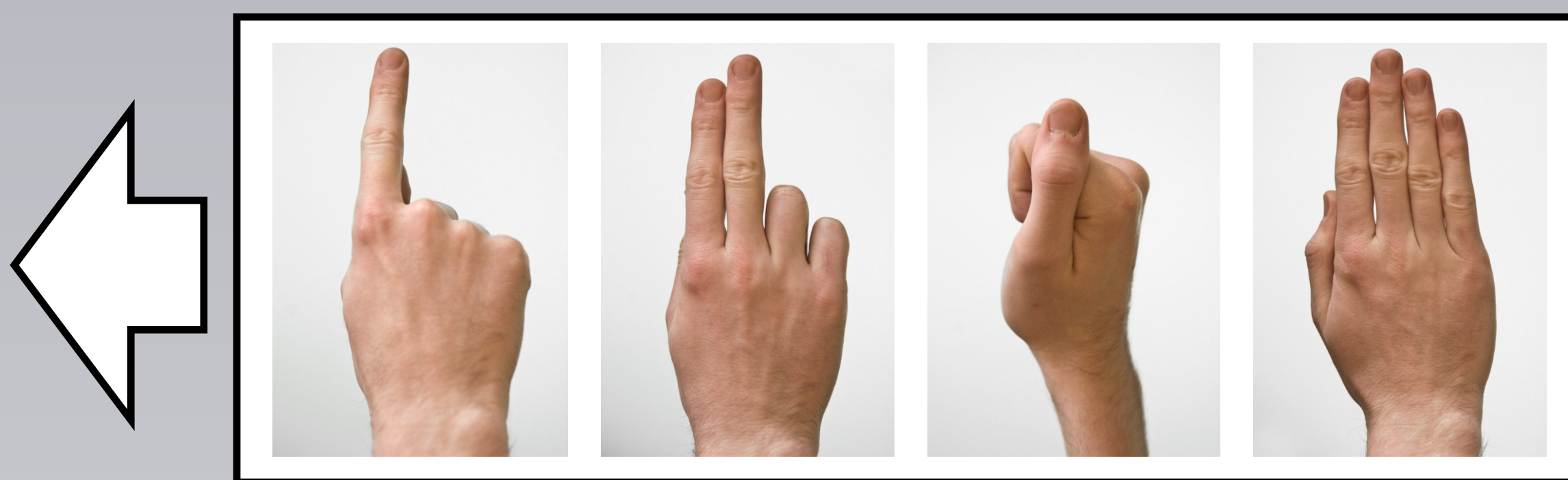
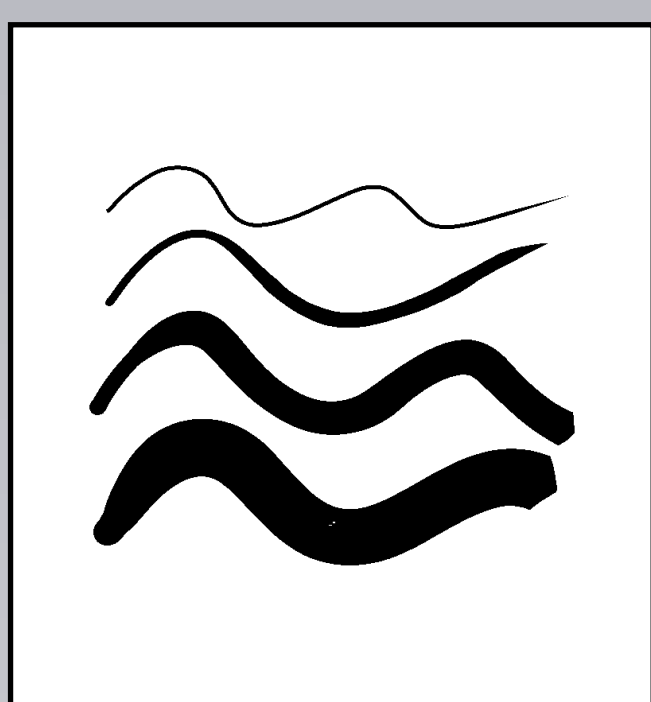
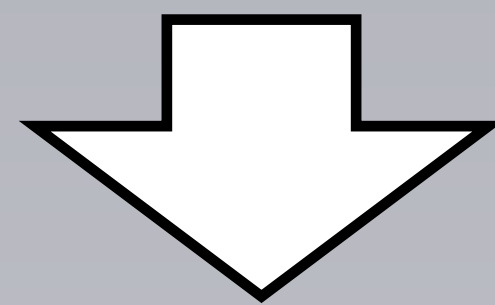
Support for Creativity
during Image Interpretation

Idea: Interaction with Hand Postures

Finger painting is an intuitive way for artistic expression, often used, for example by kids to create art. It serves as the inspiration for our interaction technique which allows people to easily create stroke-based non-photorealistic images.



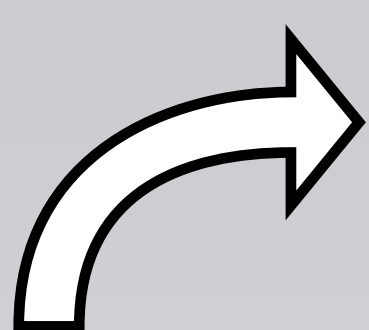
In order to support interaction techniques inspired by finger painting, we use interactive hardware that is able to track both touch position and the size of the touching object. This allows us to distinguish a number of different postures.



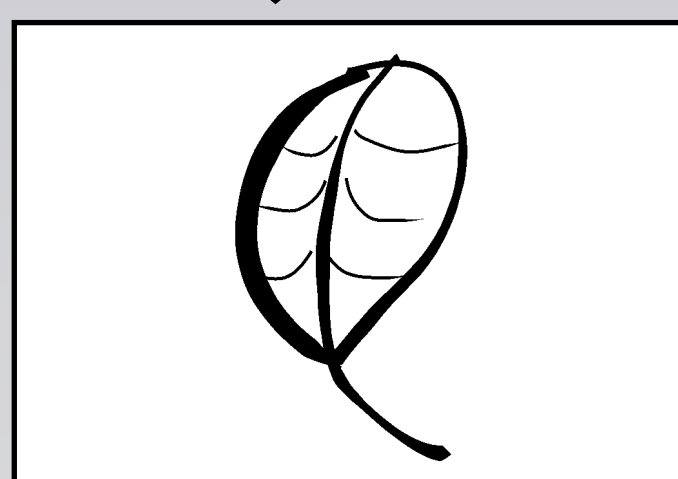
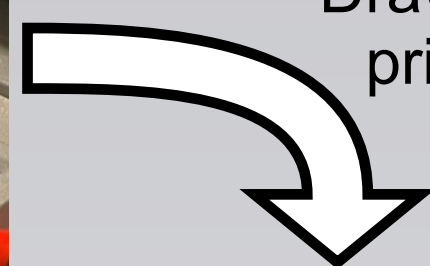
Interaction Technique

Result

Pick up pen



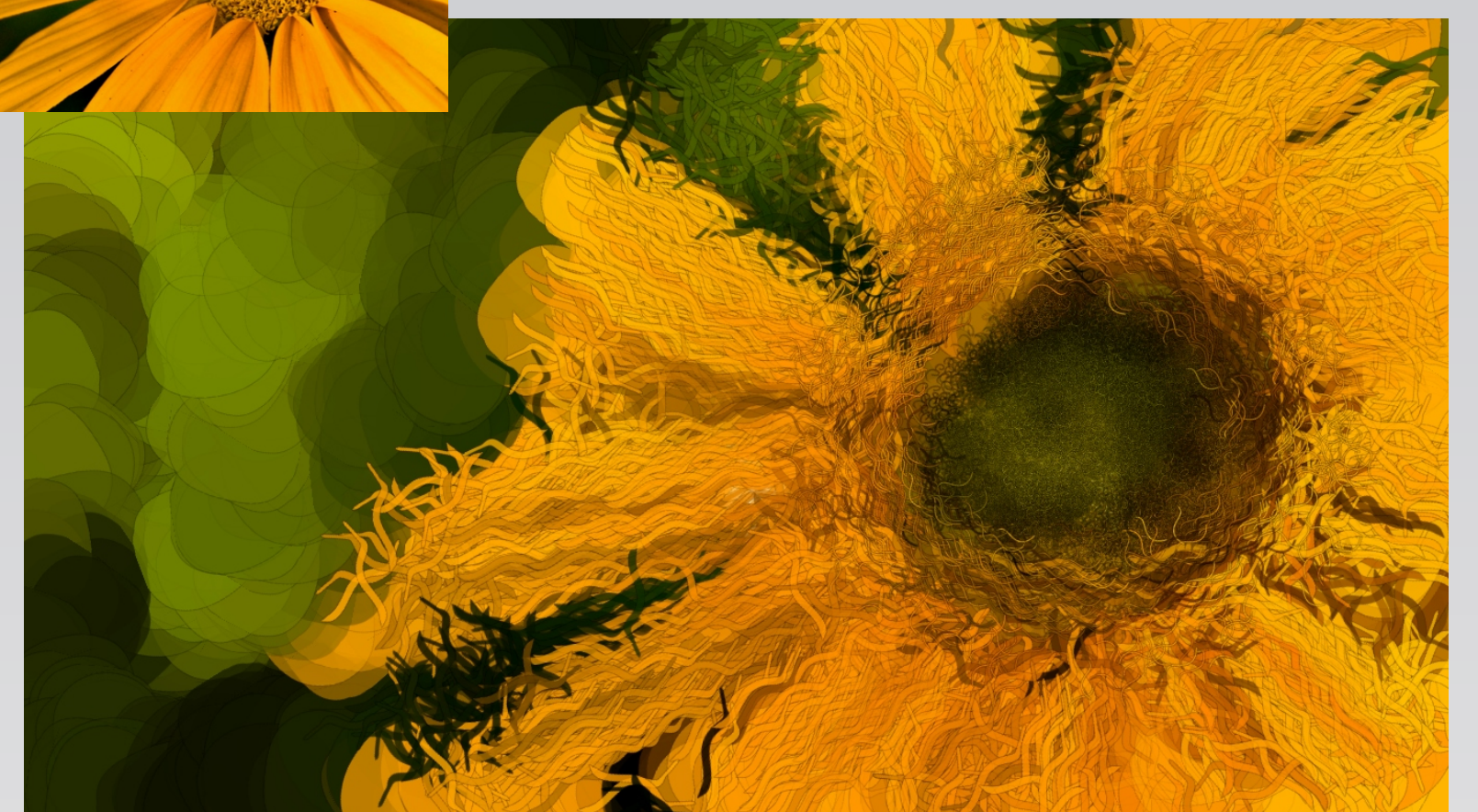
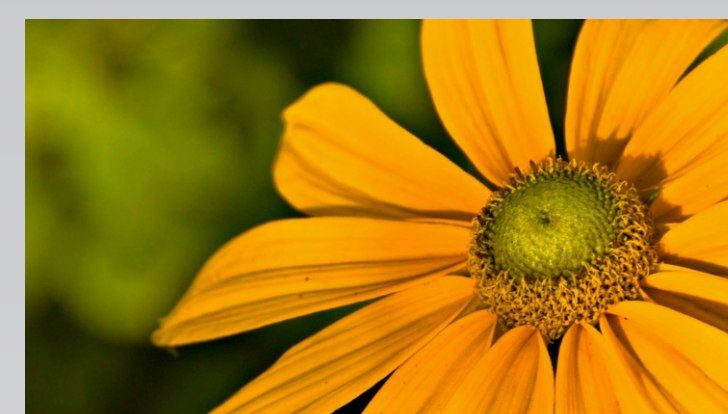
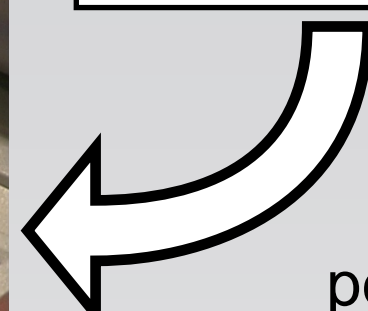
Draw new primitive



Distribute new primitives



Put pen down



Contact:

Tobias Isenberg <isenberg@cs.rug.nl>
Sheelagh Carpendale <sheelagh@ucalgary.ca>

