Daichi’s Painting: Brushing Up Painting Skills with BrushDevice

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Objective

What's ToolDevice*?

Application: Painting on real ceramics

+ Concept
- Imitates the shape of a paintbrush familiar to many people
- Realizes subtle expressions in virtual reality as well as in the real world

+ Real paint brush characteristics

(1) Brush shape
Most paintbrushes fall into two categories:
- Round brush: for painting in detail
- Flat brush: for painting large areas uniformly

(2) Brush stroke
Stoke weight, opacity, or smoothness etc.

When users want to change the stroke weight...

Press the brush against the canvas

Existing tools

ToolDevice

Advantages
- Guides users to the correct operation
- Provides intuitive operation

+ Requirements
- Intuitive device
- Direct operation
- Painting on real objects

I can paint in a similar way to the real world!

+ Implementation

Brush type ID (Resistance)

Liner brush Flat bush

Round brush

Changeable

Press weakly Press strongly

Pressure sensor (Analog stick controller)

Side button (Slide variable resister)

+ Examples

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http://www.rm.is.ritsumei.ac.jp/