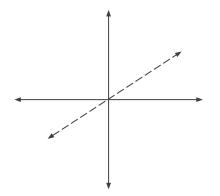
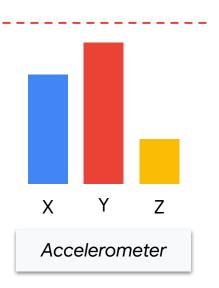
Magic Wand Application

Simple Magic Wand

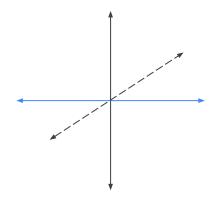


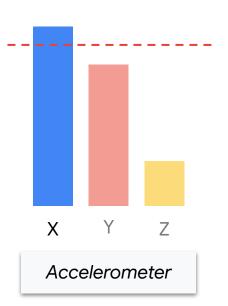




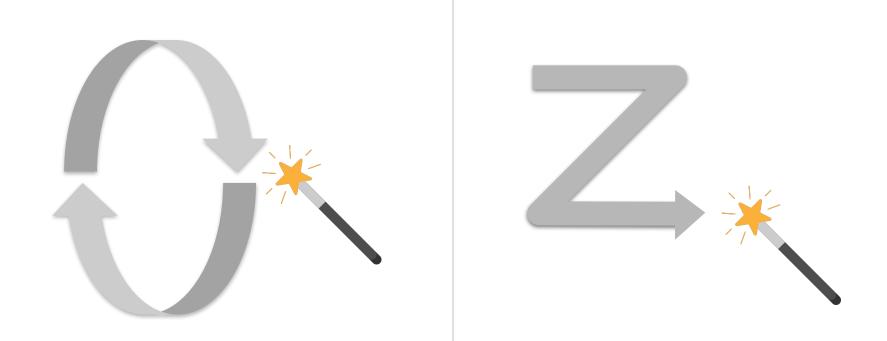
Simple Magic Wand

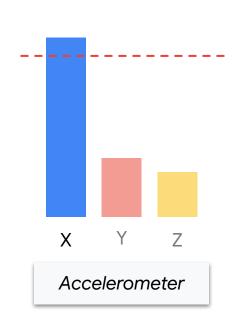


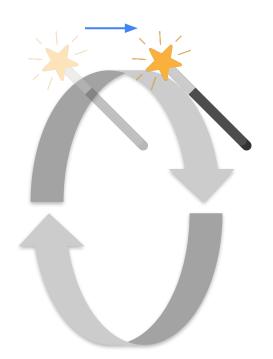


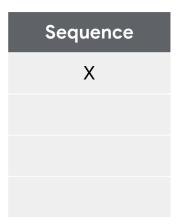


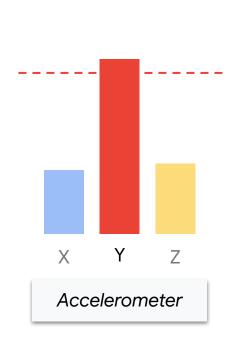
Advanced Magic Wand

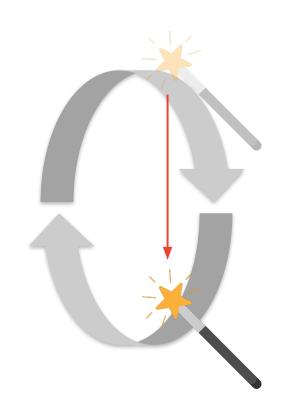




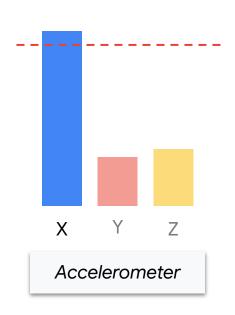


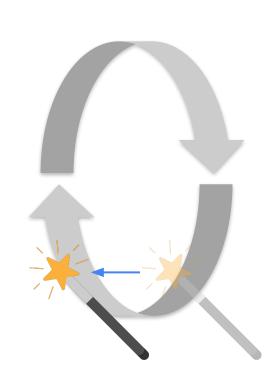




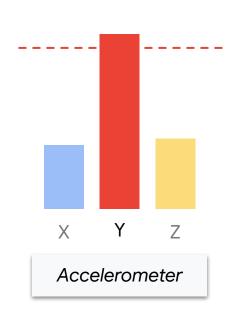


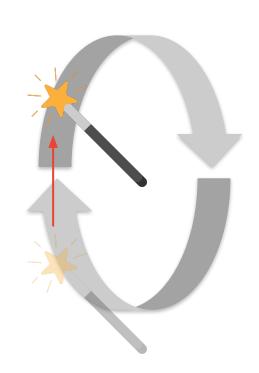
Sequence
Χ
Υ





Sequence	
Χ	
Υ	
Χ	





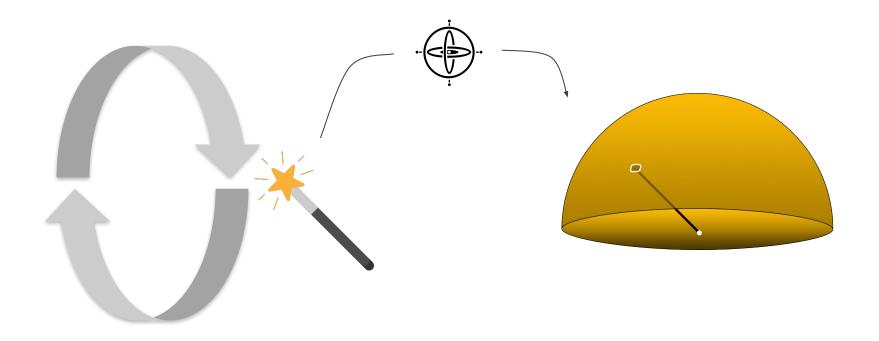
Sequence
Χ
Υ
Χ
Υ

Variation Issues

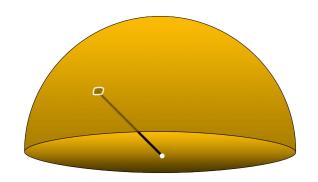
Sequence
X
Υ
X
Y

Sequence
XY (?)
Υ
Χ
XY (?)

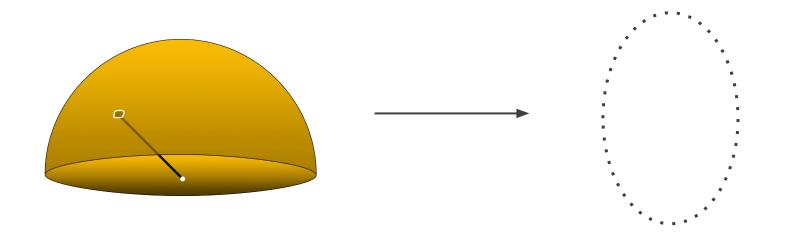
Angular Position



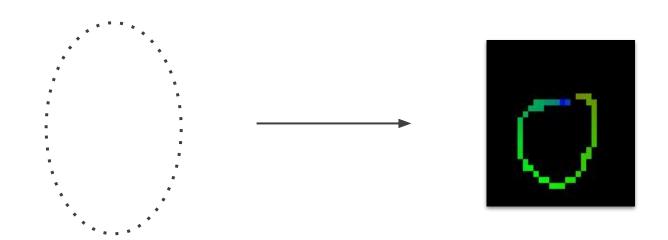
Hard to visualize, hard to classify



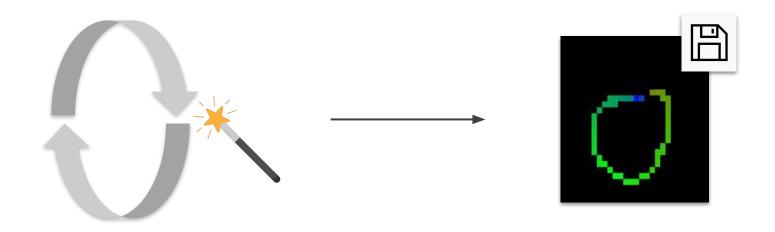
First: Flatten



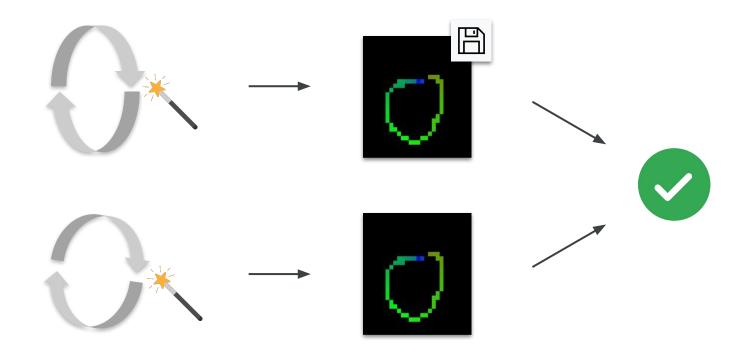
Then: Rasterize



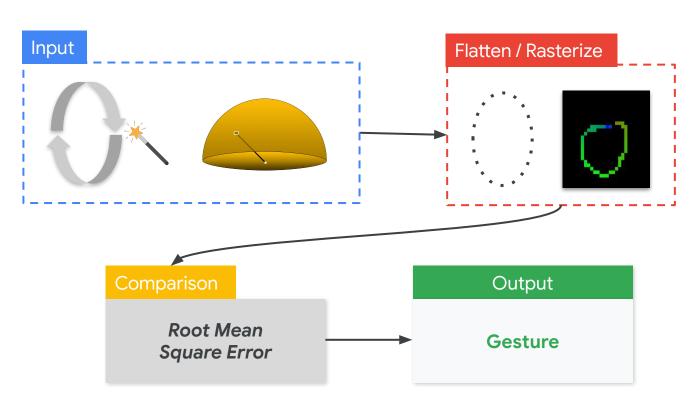
Save: **Reference** Gestures



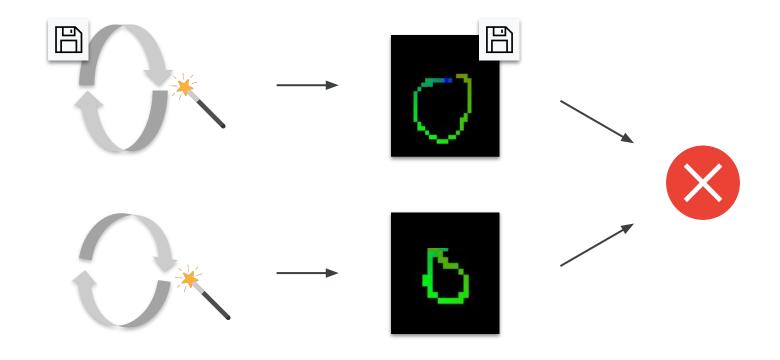
Comparing Gestures



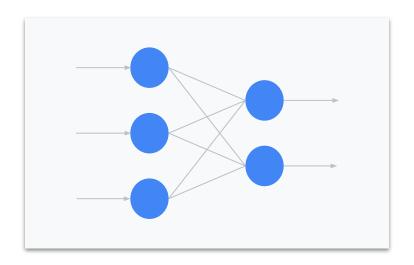
Stages



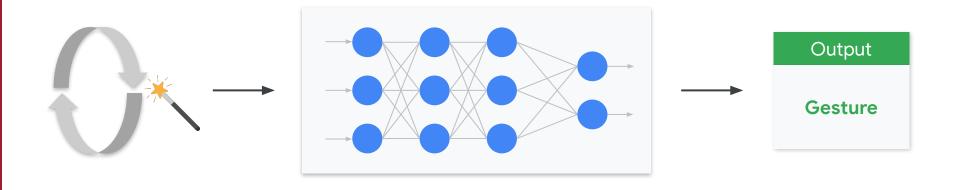
Comparing Gestures



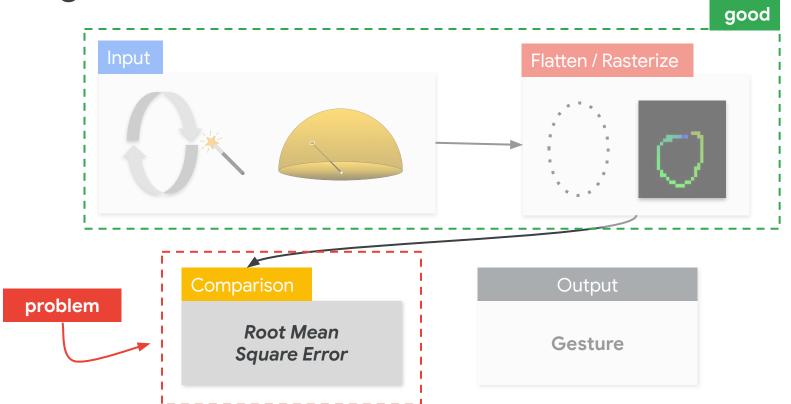
ML Approach



End-To-End Machine Learning



Stages



Stages

