

Interactive Media Development with Python & TouchDesigner

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 for_i_in_me



ELBURZ SORKHABI

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Elburz Sorkhabi is the Technical Director at nVoid Art-Tech Ltd and one of the leading authorities on TouchDesigner.

He has worked on product launches, permanent architectural installations, and world wide tours with such brands and iconic names such as google, Kanye West, Giorgio Armani, Nike, Bionic League, the Seattle Art Museum, Verizon, the National Museum of Scotland, Derivative, Nuit Blanche, MacLaren Momentum, Informa Canada, and Random Media Core.. Elburz has lead and deployed teams across the world, from Los Angeles, New York City, San Francisco, Seattle, Toronto, Montreal, Shanghai, Dubai, and across Europe.

Elburz brings a unique and diversified skill-set to every new challenge.

DEFINITIONS



Interactive Media



Installation Art



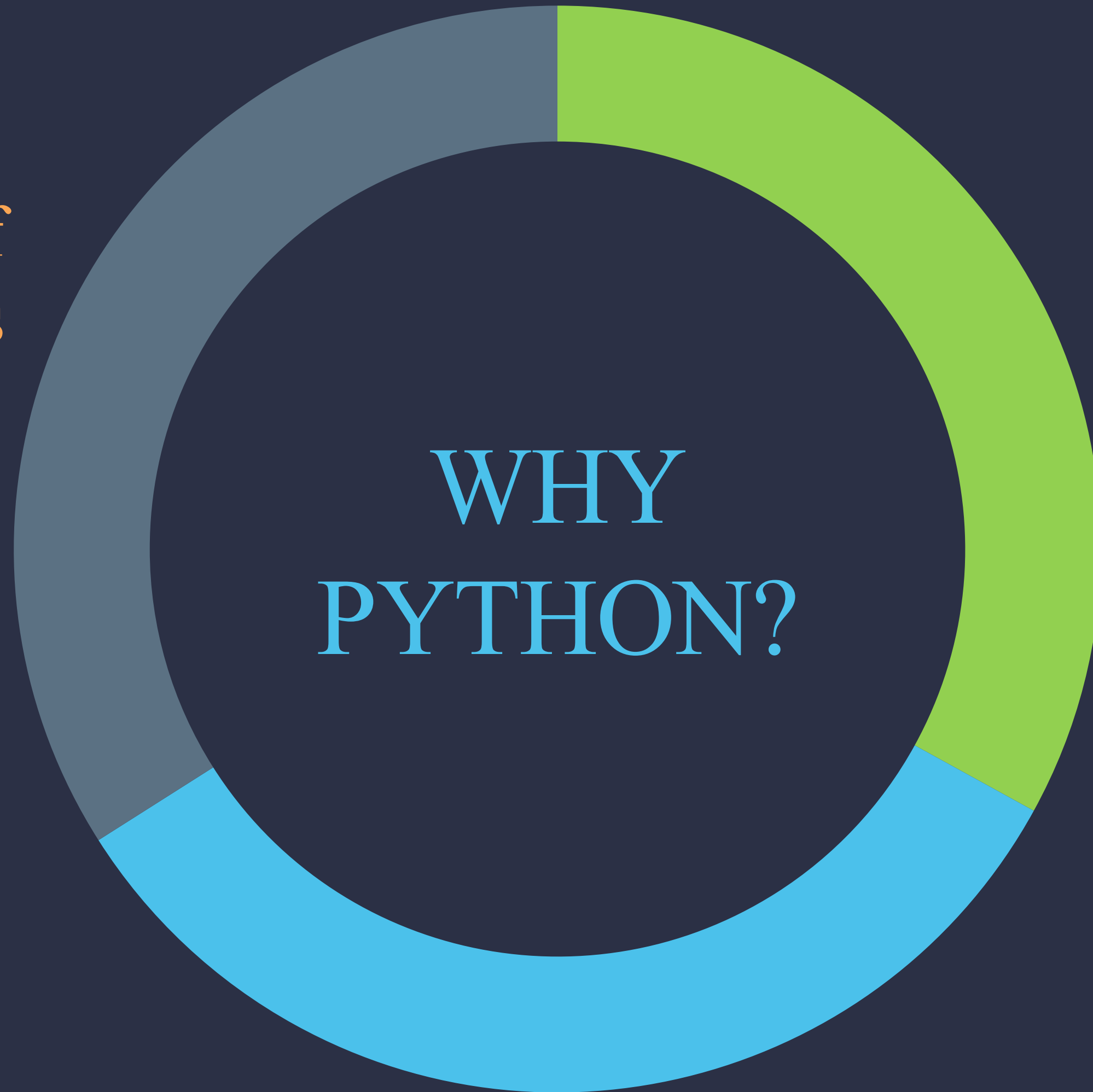
Creative Coding Framework

Lots of
Libraries

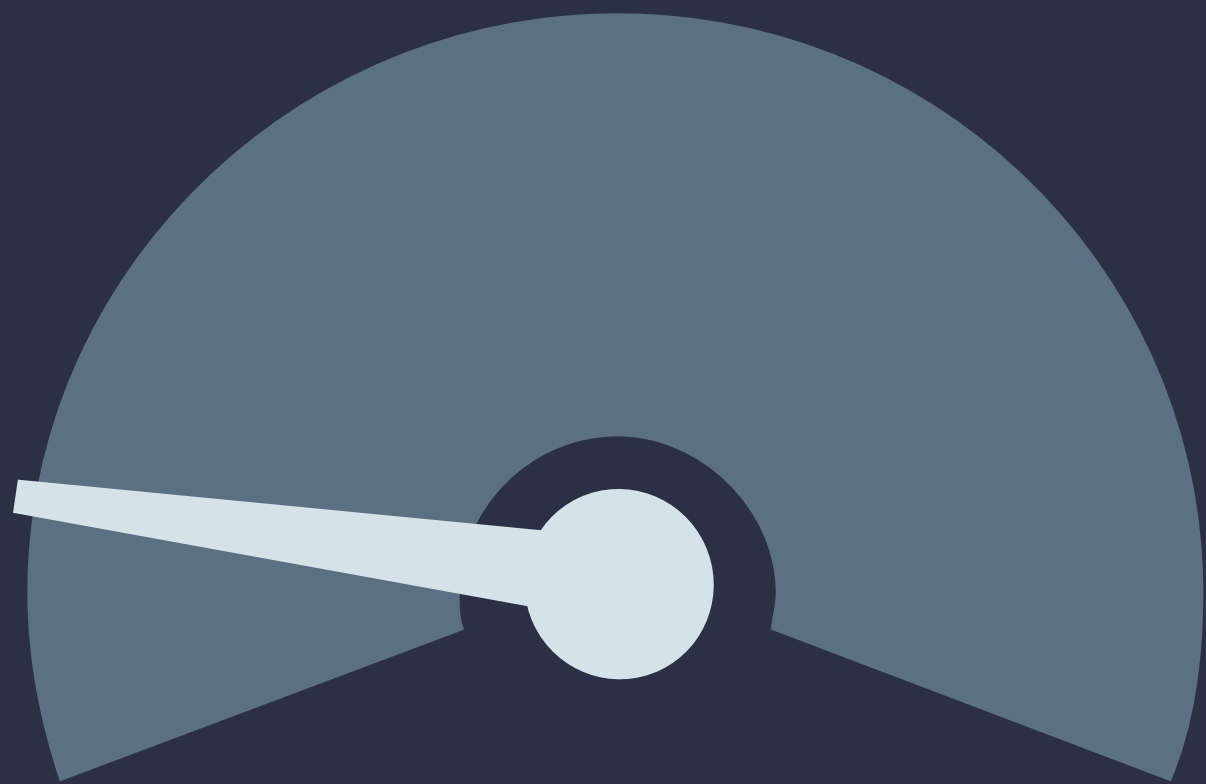
Rapid
Development

WHY
PYTHON?

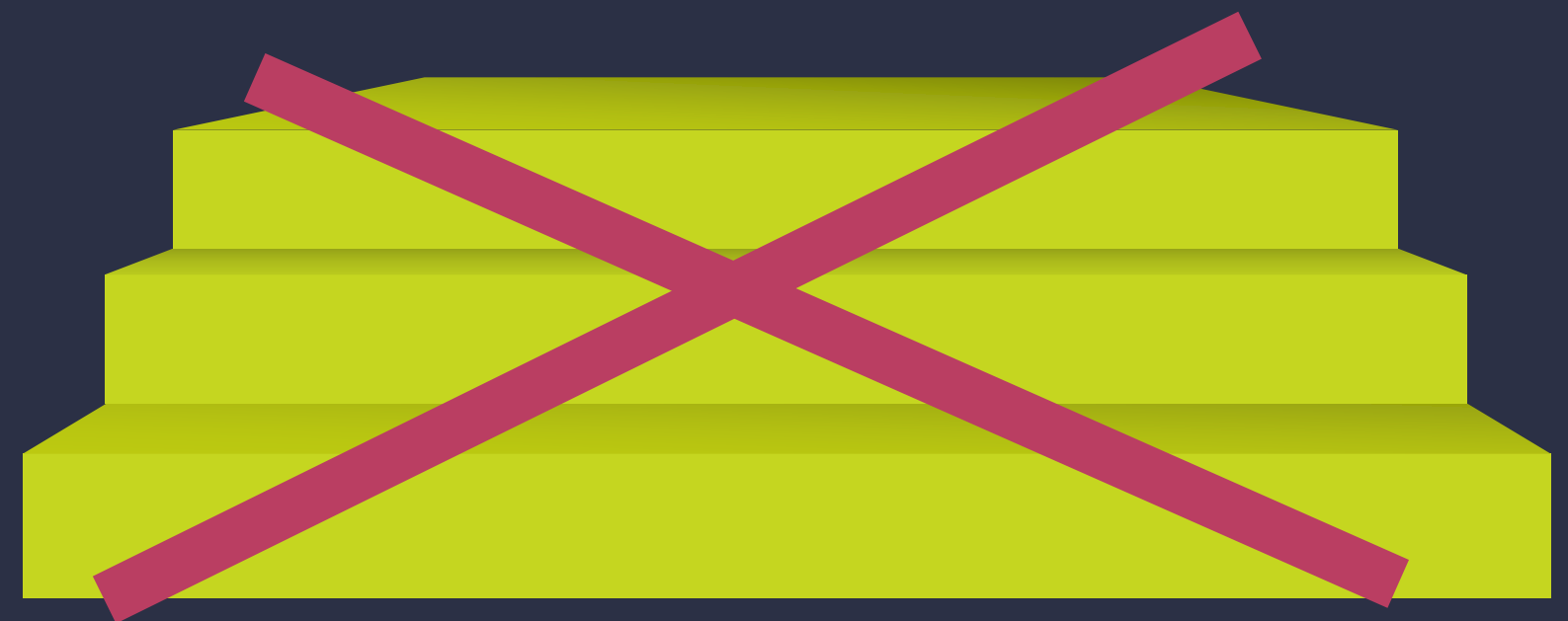
Easy & Less Headaches



WHY NOT PYTHON?



Comparatively slow



No creative coding frameworks

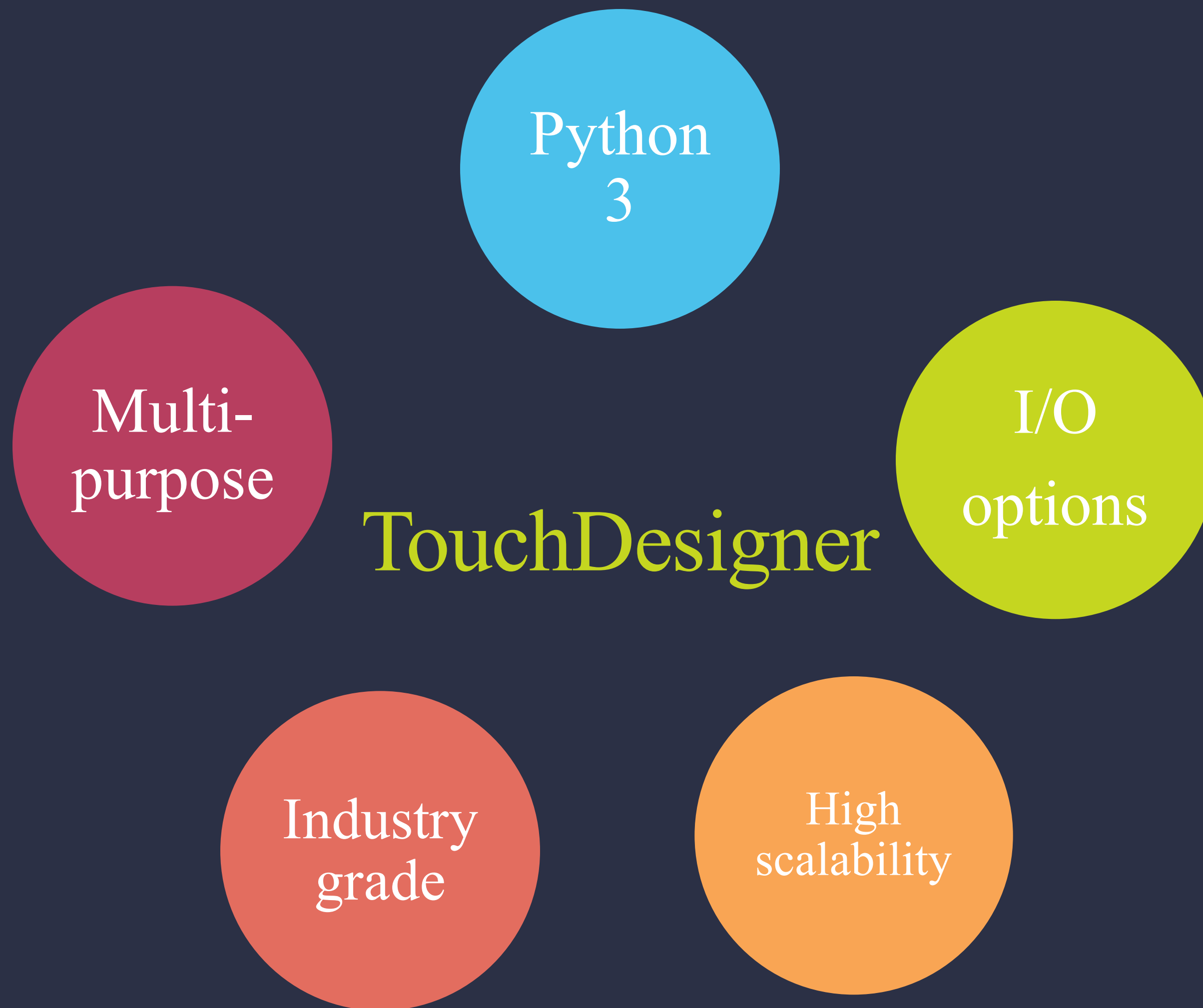
COMPETITION



#WTF are we going to do?

Python

TouchDesigner



KEY AREAS

10

INPUTS

Kinects, Web APIs,
Microphones, IR
sensors, buttons,
sliders, joysticks,
Leap Motion,
Cameras, iPads,
Accelerometers,
Arduinos, Keyboard,
Mouse, Temperature,
Motion capture,

REAL-TIME GENERATED CONTENT

2D, 3D, Text,
Geometry, Videos,
Fractals, Math,
Iteration, Computer
vision, Language
processing,
Synthesis, Sample
manipulation

OUTPUTS

TVs, Monitors, LED
walls, Speakers,
Projectors, Oculus
Rift, VR, AR,
Rendered files, Web
APIs, Text files,
CSVs, Motors,
Robots, Drones,
Arduinos,

Tutorial

Get sensor inputs
from Leap Motion

Analyze incoming Tweets directly
inside TouchDesigner

Use Leap Motion to control
word cloud parameters

1

2

3

4

5

Use Requests to
Query Twitter API using
Leap Motion

Visualize the word cloud

THANKS

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