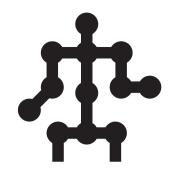
Skill Tree: Color in the Boxes

Color in the boxes of anything you've already completed, visualize your skills and identify your skill gaps. Get inspired to try new things and tailor the skill tree to suit your own journey by swapping in your own goals.



(set your own goal)

Make something for VR or AR

Teach a class on 3D modeling

(set your own goal)

•,• Create a simple 3D game

Upload your project and workflow online

5

(set your own goal)

Design an articulating or print in place model

(set your own goal)

Design a compliant

Try out a game engine

+ +

+ + Sculpt something from a reference photo

Make a CAD mode of your room, work

Use mathematics to create a 3D model eg. Grasshopper with Rhino 3D

3D Model something and upload it under an mechanism

(3)

Create a 'toon'

Animate something

you've sculpted

(set your own goal)

Use deformers to animate a model or home

Design, print and assemble something with multiple parts

Open Source license *

Create a customizable model in OpenSCAD

shader

Rig something you've sculpted 小

Sell something you've 3D modeled

Stress test a model in an engineering CAD software

<>

Texture a 3D model with realistic texturing 小

Use bones &

weight painting

to rig a model

Animate a crane

rig

O

Rig a crane

object with FK/IK

system

3D model a character

ক্ৰ

Design a custom

model for cosplay

Iterative design: Make improvements to a 3D model

V2

Design something to be assembled with different materials

engineering CAD model

Reverse engineer

something in CAD

Animate an

Create a texture in a texturing package e.g., Substance Painter, Blender, Mudbox

///

Retopologize

a 3D model

Change the

camera settings when

rendering

Use HDRIs to create

realistic lighting

0

Light and render

a 3D object

turntable

Create a 3

point light setup

0

Make a model in a

Teach a friend

how to 3D model

Get 3D scanned or

3D scan something

Use boolean tools

in 3D software

Assemble a 3D

model with free

assets

FREE

Design something to be 3D printed in specialized material

Design something to be made from a fla material e.g., sheet

software

sculpting software

Design something to be printed in two colors or materials

Design a model Ш to embed electronics or magnets

Render a model

in an engineering

CAD software

Model and make

something that solves

a problem

Export a 3D model

when complete

.STL .PLY .3MF...

Create a model

in MeshMixer or

TinkerCAD

Design something for 3D printing

metal, papercraft

Create a model

in an engineering CAD software

Use an SVG file to make part of

a 3D model

Use the extrude tool in 3D software

Learn to navigate a 3D interface with pan, orbit and

zoom

Make a 2D

schematic of a 3D model

Design a custom model for a friend

Use the revolve tool in 3D software



Draw a detailed sketch with dimensions before 3D modeling



1 tile = 1 point

Total Score

/// UV unwrap in an image-editing software UV unwrap a low-poly object

a complex object (UDIMs)



Capture a texture from the real world

Apply a material

type to a 3D model

///

///

Animate a 3D rig from a free model e.g., ball or pendulum rig Edit a texture

Modify edge normals for low-poly asset design

Make a lowpoly model



Know how to check size in 3D software

Learn about different 3D model file types .STL .PLY .3MF...



software and install

START



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github.com/sjpiper145/MakerSkillTree



