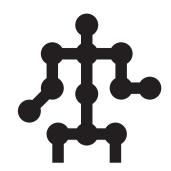
3D MODELLING

Skill Tree: Color in the boxes and level up your skills

Use for individuals or as a group by picking a colour each and coloring in a part of the box. Everyone's journey is different and you can interpret the goals flexibly. The aim is to inspire you to learn and try new things. Not everything needs to be completed.



(set your own goal)

Make something for AR

Teach a class on 3D modelling

Use mathematics

to create a 3D model

(set your own goal)

4

Create an instructable hackaday page or Hackster.ic page on a project

:

(set your own goal)

Create a 3D platformer game in a game engine

(set your own goal)

Sell something

Animate something you've sculpted

Make something

for VR

• •

(set your own goal)

Learn more than three softwares

Learn a game

you've 3D modelled ক্ৰ

Rig something you've sculpted



how to 3D model

Use generative

Learn two or more sculpting softwares

Make a puzzle

based 3D game

for 3D modelling

Design, print and assemble something

Animate an + + engineering

Teach a friend

Get 3D scanned or 3D scan something with multiple parts

Animate a crane rig

O

engine

CAD model

Use a Slicing Software for prepraring to print a

Design a custom model for cosplay

Iterative design: Make improvements to a 3D model

Animate a 3D rig

Create a customizable model in OpenSCAD

<>

Assemble a 3D model with free assets

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, Make a CAD Model of your room, work or home

M

Design something to be printed in flexible TPU material

V2

eg. ball or pendulum rig

from a free online model

Reverse engineer something in CAD software

3D model a character



a 3D object /

character

from a reference photo

Texture a

3D model with

Sculpt something

Use an SVG file to make part of a 3D model

P

Design something to be printed in two colors or

materials

articulating or print in place model

Design an

Stress test a model in an engineering CAD software

in a texturing package eg. Substance Painter. Blender Mudbox ///

Create a texture

Capture a texture

realistic texturing

Design a model to embed electronics or magnets

Render a model

Design something flat to be made in folded material eg. sheet metal, papercraft

3D Model something and upload it under an

Open Source licence

Make a model in a sculpting software

Rig a crane

object with FK/IK

system

/// Design a tool of

some kind

from the real world

Light and render a 3D object turntable

Create a 3

point light setup

UV unwrap a complex object (UDIMs)

in an engineering CAD software

Model and make

something that solves

a problem

Create a model in an

engineering CAD software eg. Fusion 360, FreeCAD, Solidworks or others



UV unwrap a low-poly object Design a custom model for a friend

Upload a remix of

a 3D model

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Draw a detailed sketch with dimensions before 3D modelling

Know how to check

size in 3D software

Create a model

in MeshMixer

Use boolean tools

in 3D software

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Create a 3D model

from a 2D schematic

Edit a texture in an image-editing software

///

Create a model in

TinkerCAD

Make a 2D schematic of a 3D

model

Learn to navigate

a 3D interface

Modify edge

normals for low-poly

asset design

Texture a low poly object

Design something

for 3D printing

Use the revolve

❸ with pan, orbit and zoom

Make a low

poly model

tool in 3D software

Use the extrude

tool in 3D software

1 tile = 1 point

Total Score

Name: .





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