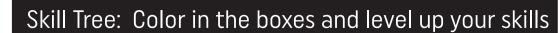
CNC & CAM



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



(set your own goal)

Teach a CNC

class

Teach a friend

CNC skills

Sell something

you've made

\$

P

Make a

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)

Machine

an unknown

material



(set your own goal)

Build your own

CNC Machine

Repair a CNC

after a crash

Modify a post-processor

Make a custom

workholding jig

Use a fixture

plate

Make soft

(set your own goal)

Cut a 3D contour

Engrave text

A

Use a finishing

cycle

Machine

a pocket

:::::

Machine stainless steel

Use a boring tool

Machine a used part

Machine

steel

Machine

a composite

Use a fly cutter

Use heatshrink tooling

Use a chamfer

tool

Make multiple parts that fit together

Use a facemill

mechanical part or tool Ø Use a keyless

chuck

Make a part to

repair something

Use material that is too small

Design and upload a project online

Make a 3D

art piece

Make something

as a gift

Understand the limits of your machine

盟

(set your own goal)

Use a CNC Lathe

Fill an engraving with wax or resin

F

Accidentally misalign

the second side of a job

Hit a tight

tolerance

令

Clean down

a CNC

**

See "chatter"

in your part

///

Upgrade your CNC machine

Tram or align

your CNC machine

Check machine

alignment

令

Use multiple

work offsets

令

Use a digital

probe to set origins

 \oplus

Use tool

offsets

令

Touch off

material manually

令



Use a vice



Add tabs to

a part

Use a vacuum

table

Manually

edit a G-code file

G1

Fix stock with

clamps or screws

Visit your local

makerspace or

woodworking club

0

Use work stops for multiple



Cut a 2D Contour

Face off a

part

Use peck

drilling

ð

Generate your

first G-code file

G1

Use a

feeds & speeds

calculator



Machine brass or copper



Use a collet chuck



aluminum Use a ball



plastic

Machine

timber

Get safety gear

and learn CNC safety

mill Machine



Use a drill bit



Use an endmill



Use a CNC for the first time 盟



1 tile = 1 point

Total Score

Name: github.com/sjpiper145/MakerSkillTree



