CODING

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.

ADVANCED

(set your own goal)
(set your own goal)
(set your own goal)
(set your own goal)
(set your own goal)
Teach a class on coding skills
Learn three or more coding languages
Learn multithreading
Use a second programming language in the same project
Participate in an open source project
Fix a race condition
Use a performance profiler to identify and fix hot spots
Write a concurrent program using thread synchronization
Write a streaming program using UDP and a custom protocol
Make a recursive function non-recursive
Write a program to accept commands over a UART from a serial terminal
TX RX
Learn about project management styles (e.g. waterfall vs agile)
Write detailed documentation for your coding project
Write functional code
JS
Earn money from coding
Collaborate on a project with others
Test and improve your code
Use bitwise operators for speed improvements
1 0 1 1 0
Use a graph data structure
Use recursion
Write object oriented code
Use a tree data structure
Write a TCP/IP server which accepts connections on a unique port number
Participate in a Hackathon
Write an iOS Hello World program
Write an Android Hello World program
Teach a friend a coding skill
Write a Windows Hello World program
Write a MacOS Hello World program
Write a Linux Hello World program using GTK+
Use a design pattern (e.g. Gang of Four)
Write a web application
WWW
Use version control
Write a quick sort algorithm
Implement a sort algorithm
Document your program
Run into circular dependency with your files
Use an API in a project
API
Convert code from floating point math to integer/fixed point
3.141592
Use a linter
Use a logical shortcut in a condition
&&
Use a Git repository to share code
Spend a long time trying to find a trivial bug
Optimize the memory footprint of a program
Get confused reading your own code
Create a CLI tool with parameters
Use a keyboard shortcut to run your program
Use a set instead of a list
Use a debugger
Use a keyboard shortcut to save your code
Use AI to help write code
Explain your code with comments
Write a function
fx
Look up an error message on stack overflow
Complete a learn to code class or book
Download a code library
Iterate over a list/array with a loop
Re-assign a value to a variable
Adjust example code for a project
Use node based coding
Find a bug and fix it
Write something in a Markup language
Use the command line
Split your code into multiple files
Learn HTML basics
Learn core syntax for a language
Write a "Hello World" program
Use block based coding

BASICS

START HERE

1 tile = 1 point

Total Score

Name: _____

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