



The ~~AD~~CS guide for kids who can't code good
And who wanna learn to do other stuff good too

Stay Sane	0 Embrace the Zen of Python 1 Use an IDE that speaks your language
Write Readable Code	2 Python was designed to be a readable language so make your code readable. Code in blocks Reflow long lines Avoid “one-liners” and other write-only coding styles 3 Use consistent indentation. Spaces, not tabs, NEVER mixed. 4 Use consistent naming convention CAPS, CamelCase, with_underscores Functions are verbs, variables and classes are nouns 5 Group code into sections Preamble Imports Metadata and Static variables Classes Functions If <code>__name__ == "__main__":</code> 6 <u>Use Idiomatic Python</u>
Write Usable and Portable Code	7 Document your work: Docstrings for users Comments for developers 8 Separate code and data 9 Leap before you look Try/Except/Else Raise exceptions instead of using <code>sys.exit()</code>
Write Performant Code	10 DRY or DIE: Don't repeat yourself (or others) a.k.a Duplication is Evil Write functions and modules Astropy, Numpy, Scipy, Matplotlib, and Pandas probably have what you need 11 Write tests as you write code (bugs = test cases) 12 Vectorise as you go