

Vv214 Final Project

Donut.c

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Back in 2006, there's an interesting c project called Donut.c, which will print a rotating donut in the terminal by *Ascii character*.

Looking into the source code and a blog updated recently by the author, we find out that this program is highly depend on what we have learned in Vv214.

After some discussion, we decide to dive into the source code and analyze the whole mechanism behind it.

Introduction



Draw a donut



Rotate a donut



Bright and Dark



Projection into terminal



Discrete Dynamic System



- ▶ <https://www.a1k0n.net/2011/07/20/donut-math.html>
- ▶ https://en.wikipedia.org/wiki/3D_computer_graphics
- ▶ <https://www.javatpoint.com/computer-graphics-z-buffer-algorithm>