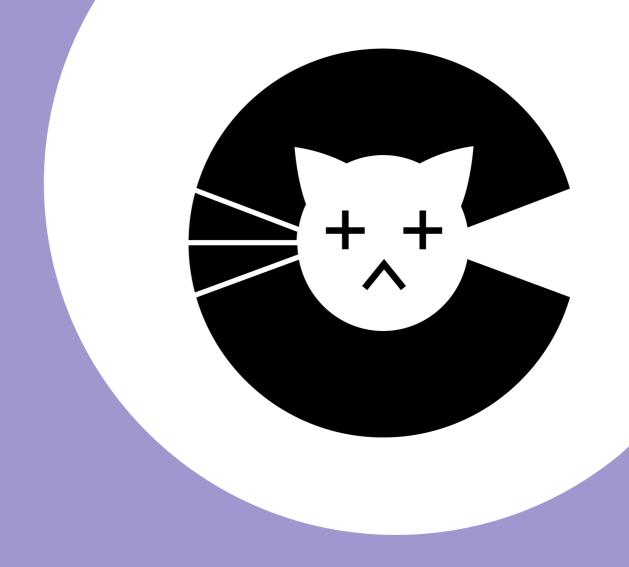
Let Them Eat Cake





Illusionary Environments

"

It has also been noted that students cannot grasp the concept of "real" programming with visual environments and that they feel it is more discouraging when they begin to switch into text-based programming languages after working with such **illusionary environments**.

Perera, Piumi & Tennakoon, Geethya & Ahangama, Supunmali & Panditharathna, Rangana & Chathuranga, Buddhika. (2021). A Systematic Review of Introductory Programming Languages for Novice Learners. IEEE Access. PP. 1-1. 10.1109/ACCESS.2021.3089560.

HOW STANDARDS PROLIFERATE: (SEE: A/C CHARGERS, CHARACTER ENCODINGS, INSTANT MESSAGING, ETC.)

SITUATION: THERE ARE 14 COMPETING STANDARDS.

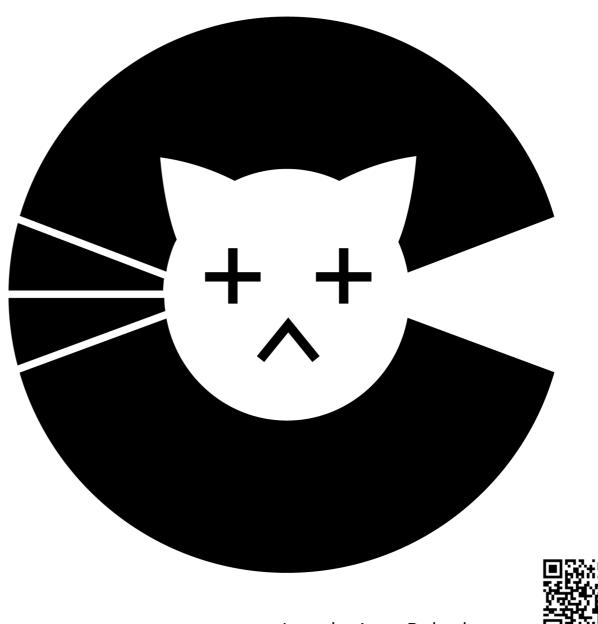


500N:

SITUATION: THERE ARE 15 COMPETING STANDARDS.

xkcd.com/927/

Catpie



Basic Example

Usingif, while,built-in functions

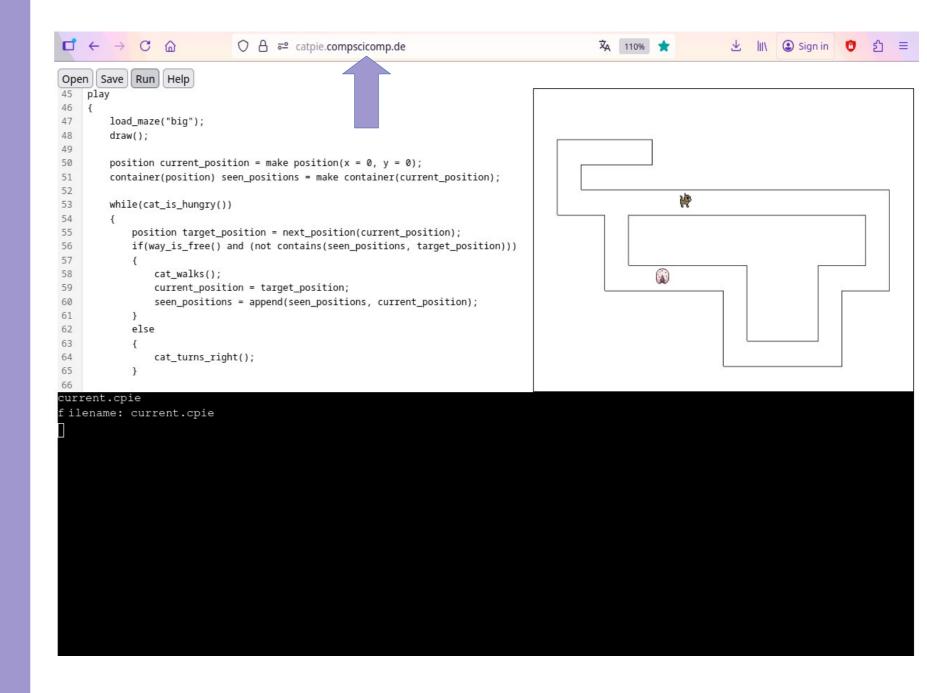
```
○ A == catpie.compscicomp.de
                                                                                                               Sign in
      Save Run Help
        load_maze("spiral");
        draw();
        while(cat_is_hungry())
           if(way_is_free())
               cat_walks();
11
12
           else
                                                                                                   13
14
               cat_turns_right();
15
16
17
           draw();
18
19 }
                                                                                                                               of g
current.cpie
 ilename: current.cpie
```

Error Messages

```
Open Save Run Help

1  struct position
2  {
3    int x = 0;
4    int y = 0;
5  }
6
7  play
8  {
9    position current = make (x = 2, y = 4);
10    container(position) seen = make container(current);
11 }
```

Runs In Browser









Engel, Rahel Natalie; Lenk, Hannah; Greubel, André; Weber, Dorian (2025):

Cats, Code, and Concepts: Learn to Program with Catpie. 23. Fachtagung Bildungstechnologien (DELFI 2025). DOI: 10.18420/delfi2025_50. Bonn: Gesellschaft für Informatik e.V.. PISSN: 2944-7682. pp. 407-411. Demo-Beiträge. Freiberg. 8.–11. September 2025