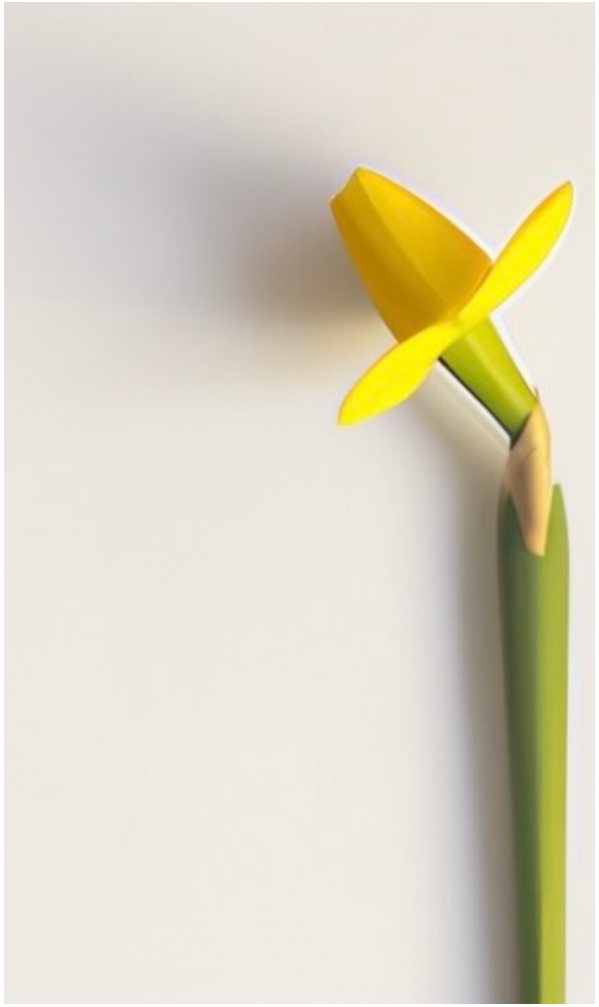
Advantages of Drawware Notation



Drawware Can Express Some Things Better Than Text Can Express Them

Express “x = 2 * x + 2 + x” As Text, Not As A Drawing

Use Visualization to Express Concepts That Aren’t Improved Through The Use of Text

Difficult To Express As Text

It is not *impossible* to express the above in text, it is just *less convenient*.

The above component has 5 possible outputs.

Only *one* of the outputs fires at a time - the other outputs remain silent.

No single output is more important than any other output. It is not reasonable to choose *one* output as the *happy path* and relegate the rest to being *exceptions*.

Language Affects Thought

If all you have is function-based notation, then everything looks like a function, even when it's not appropriate to deal with a problem in a function-based manner.

Language affects thought. If an idea is difficult to express, the idea will be avoided in lieu of some other idea.

What Is A Textual Notation Suitable For?

- Computation.
- Calculators.

What Is A Visual Notation Suitable For?

- Concurrency.
- Internet.
- Robotics.
- Game NPCs.
- Blockchain.

> Concurrency is asynchronous. It is not suitable to express true concurrency in a synchronous, step-wise manner. It might be possible to analyze some concurrent processes in a synchronous, step-wise manner, but, this is not the most convenient way, in general, to *express* concurrent processes.

Nothing is Not A Value

For example, in the above drawing of a component, if *win* is fired, *die* is not, also, fired as *nil* or *undefined*.

In this case, *die* is nothing, it is not fired at all. It is not possible to express this concept in text as a function. Or, at the very least, it is less convenient to express this idea in textual form.

Programming Simplicity

See Also

References *https://guitarvydas.github.io/2024/01/06/References.html*
Blog *https://guitarvydas.github.io/*
Blog *https://publish.obsidian.md/programmingsimplicity*
Videos *https://www.youtube.com/@programmingsimplicity2980*
[see playlist "programming simplicity"]
Discord *https://discord.gg/Jjx62ypR*
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