

A Thin Veneer over the Interpreter

[1]: a = 10
[2]: a += 1
[2]: 11

All cells share a global state

[1]: a = 10
[3]: a += 1
[3]: 12

Cells have side effects

step 1: a = 10

[1]: a = 10 ←
[3]: a = 20
[2]: a += 1
a
[4]: a += 3
a

expectation: a = 24

Cells can go out of order

A Thin Veneer over the Interpreter

[1]: `a = 10`
[2]: `a += 1`
[2]: 11

All cells share a global state

[1]: `a = 10`
[3]: `a += 1`
[3]: 12

Cells have side effects

step 2:
 $a = 10 + 1 = 11$

[1]: `a = 10`
[3]: `a = 20`
[2]: `a += 1`
[4]: `a += 3`
a



expectation: $a = 24$

Cells can go out of order