

# 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

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[2]: `a += 1`  
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All cells share a global state

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

Cells have side effects

step 3: a = 20

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



expectation: a = 24

Cells can go out of order