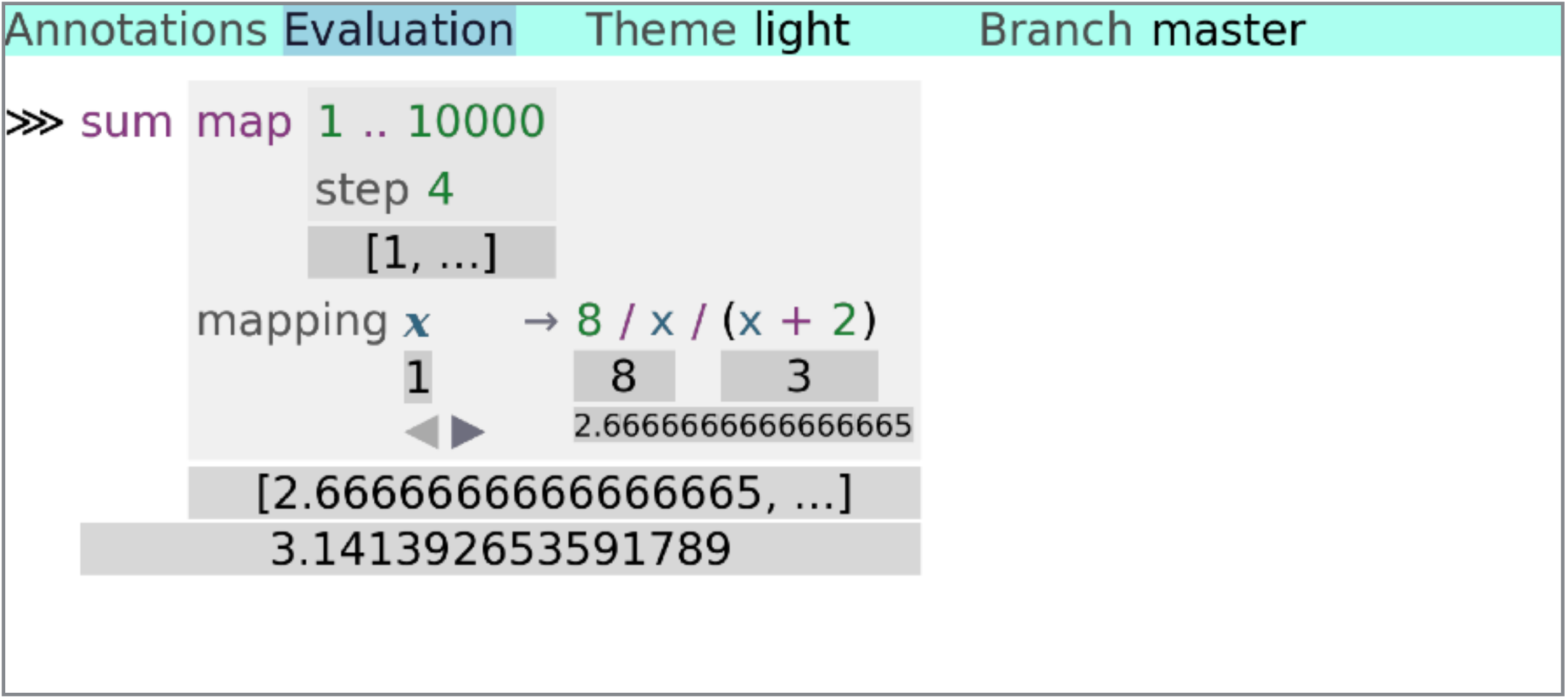
Evaluation in Traditional REPLs

```
>>> sum(8./x/(x+2) for x in range(1,10000,4))
3.141392653591789
```

Python's REPL (read-eval-print-loop) lets us play with our code interactively to verify our mental model of it.

Evaluation in Lamdu / Live Debugging

- Shows results for *all* subexpressions
- Code is evaluated while being typed
- Browse between different invocations of the same function


Annotations Evaluation Theme light Branch master
⋙ sum map 1 .. 10000
step 4
[1, ...]
mapping x → 8 / x / (x + 2)
1
8
3
2.6666666666666665
[2.6666666666666665, ...]
3.141392653591789

FAQ - Continuous Evaluation

Q: How do we prevent unsafe code execution? When code buys and sells stocks or launches rockets, should such code be automatically executed?

A:

Lamdu is a pure language (similar to Haskell). Execution of code with effects is performed only when the user explicitly chooses so.

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