Street magic with functions



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Functional programming

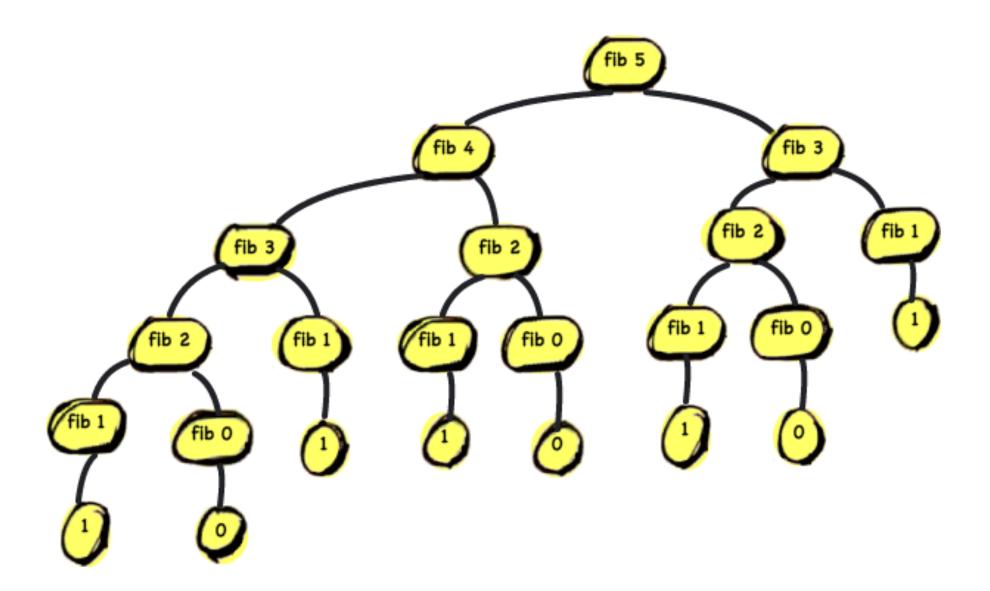
- First-class and higher-order functions
- Referential transparency
- Immutable data
- No state
- No side effects



Enough talking Show me

Iterating without do-while, while, for, or for-in

Tree recursion



linear recursion (recursive) linear iteration tree recursion

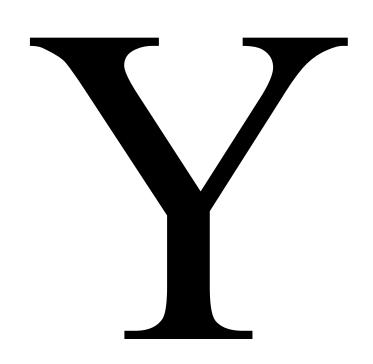


Loops?
We don't need no stinkin' loops!

Now, what about the recursion itself?

We couldn't have done the trick without recursion, right? *Right?*

Oh yes we could! And that's



Links

- 1. David Blaine's Street Magic parody: http://youtu.be/wTqsV3q7rRU
- 2. Values and Change Clojure's approach to Identity and State: http://clojure.org/state
- 3. Execution in the Kingdom of Nouns: http://steve-yegge.blogspot.com/2006/03/execution-in-kingdom-of-nouns.html
- 4. Structure and Interpretation of Computer Programs: http://mitpress.mit.google.com/
- 5. The Y Combinator (Slight Return), or: How to Succeed at Recursion Without Really Recursing: http://mvanier.livejournal.com/2897.html
- 6. This presentation: https://github.com/ikr/street-magic-with-functions