

Learn You a Haskell for Great Good!

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What is your language called?

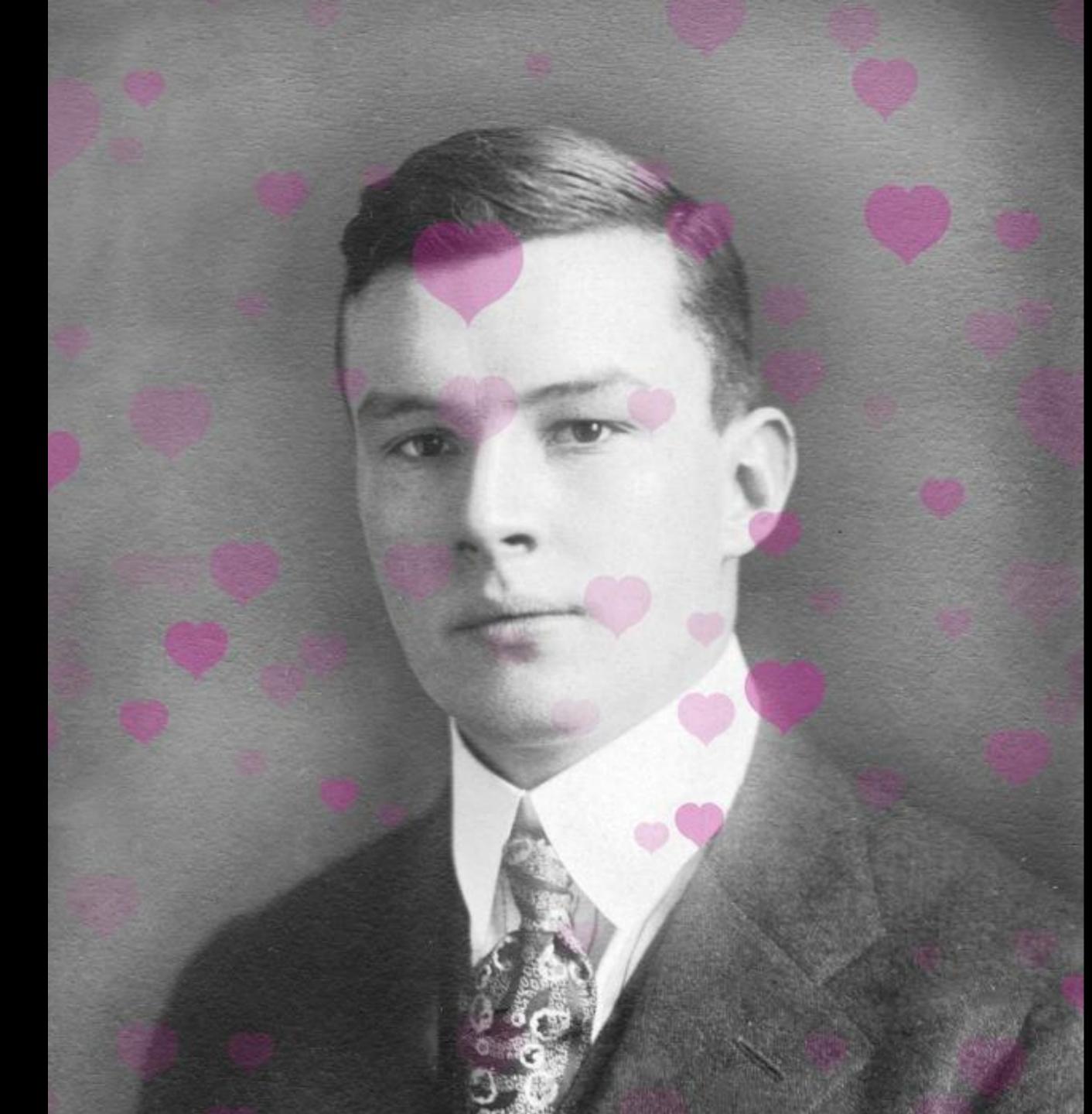
Does it mean something, refer to something?

Some fun fact about the name?

Haskell B Curry

American mathematician and logician

- Topic: Combinatorial logic
- Colleague of Moses Schönfinkel
- Three PLs to his name:
 - Haskell
 - Brook
 - Curry

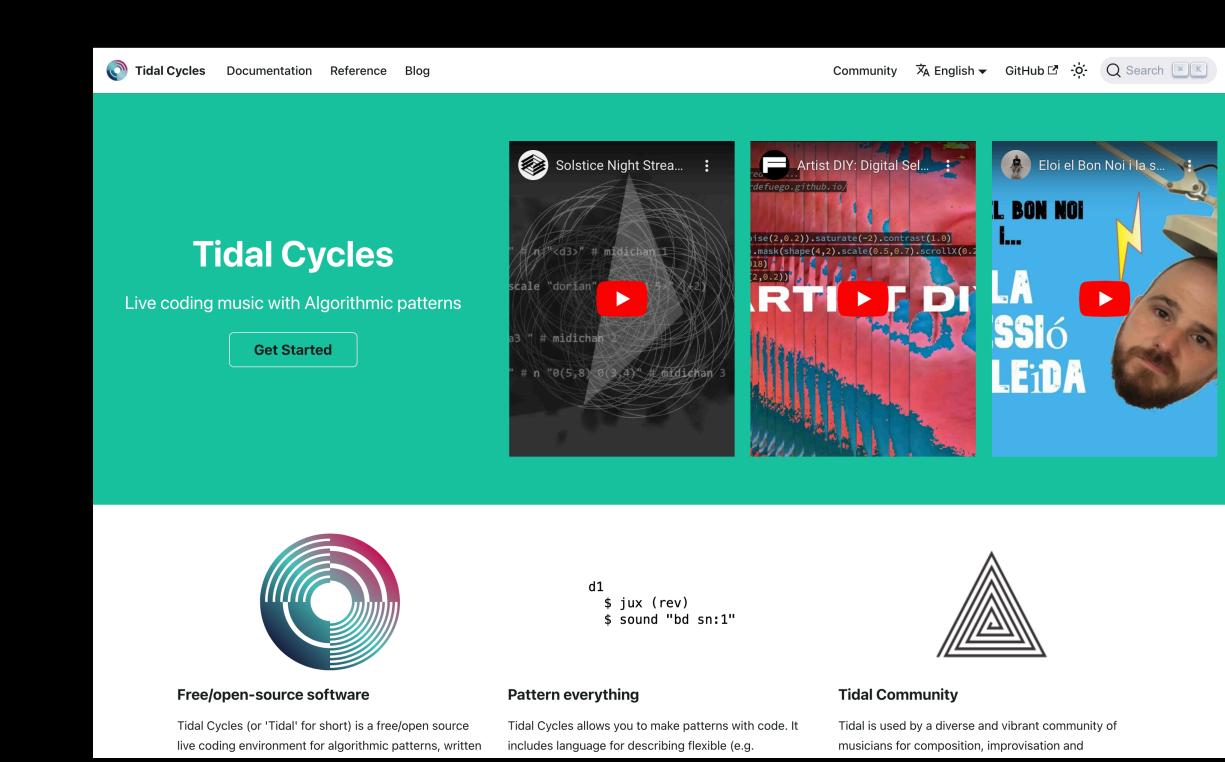


Hard Facts

- Compiled or interpreted: Why not both!
 - ghc(i)
- Type system: Static typing, Hindley-Milner type system
 - What is static typing?
 - What is this type system?
- Programming Paradigm: Functional Programming
 - What is FP?

What is the language used for or known for?

- learning computer science
- writing Domain Specific Languages
- rapid prototyping
- live coding



What is the community like? Are there in-person meetups or conferences? Active discords or other chats? Do you interact with the community often and this is this relevant for your language?

- Bros and math professors is not the full truth. :D
- online https://www.haskell.org/community/
- in-person https://zfoh.ch/zurihac2023/



Why did you learn the language? Was it the language you learned programming in?

- first language in University
- great equalizer not a lot of students know this language before!
- trains your brain to think in recursion

Do you actually like programming in this language? Why? Or what's your favorite feature in this language? Can also be a cool library or something from the ecosystem

• intuitive recursion
 isort :: [Int] -> [Int]
 isort (x:xs) = insert (isort xs)
 isort [] = []

insert (y:ys)
 | x < y = x : y : ys
 | otherwise = y : insert ys</pre>

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• list comprehensions:

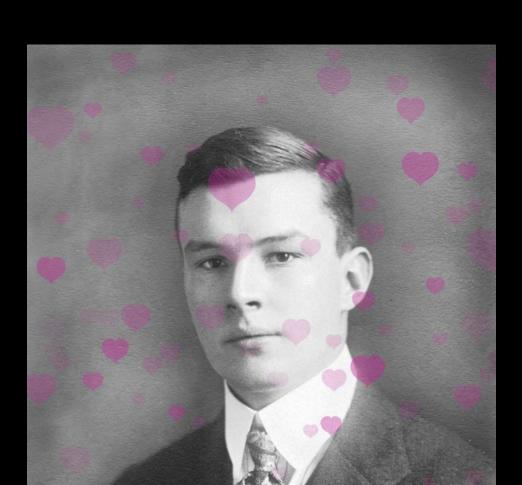
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expression [(i,j) | i <- [1,2], j <- [1..4] ]</li>
```

- yields [(1,1),(1,2),(1,3),(1,4),(2,1),(2,2),(2,3),(2,4)]
- (live) music
 - making music with Haskell from scratch
 - https://wiki.haskell.org/Applications and libraries/Music and sound

Tutorial

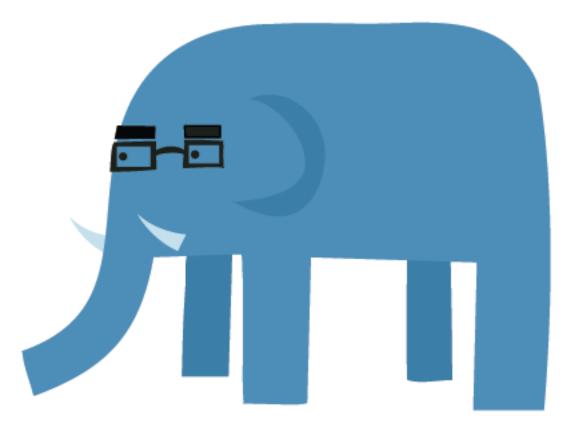
- http://learnyouahaskell.com/chapters
- in-browser:
 - https://www.tryhaskell.org/
 - https://www.onlinegdb.com/ online haskell compiler

Have Fun!



Learn You a Haskell for Great Good!

A Beginner's Guide



Miran Lipovača

