



PIXIE LANG

WHAT IS PIXIE?

SMALL LIGHT LISP

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INSPIRED BY CLOJURE

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SMALL LIGHT LISP

INSPIRED BY CLOJURE

MAGICAL POWERS

<https://github.com/pixie-lang/pixie>

**ISN'T CLOJURE
PERFECT?**

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JVM STARTUP TIME

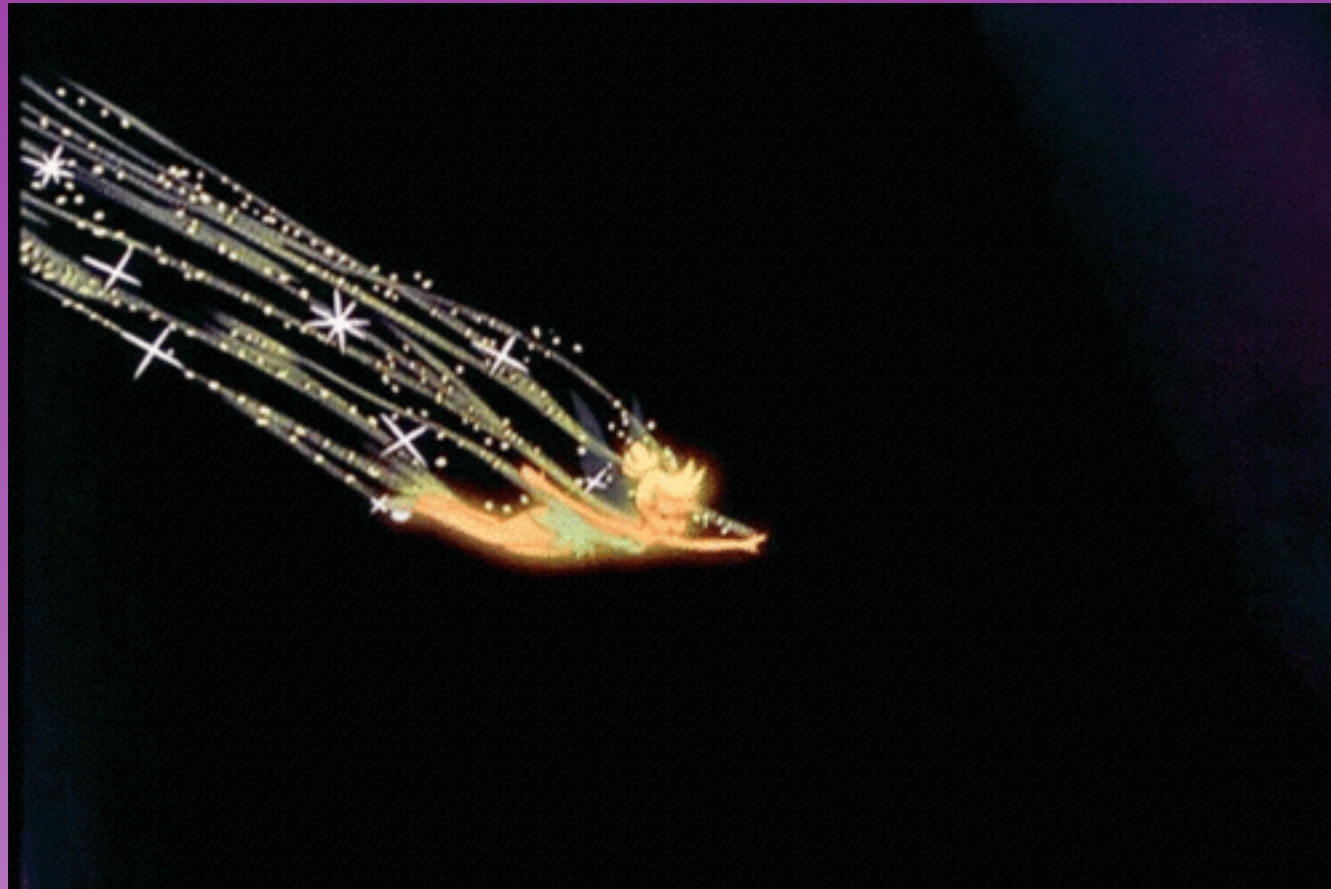


**ISN'T CLOJURE
PERFECT?**

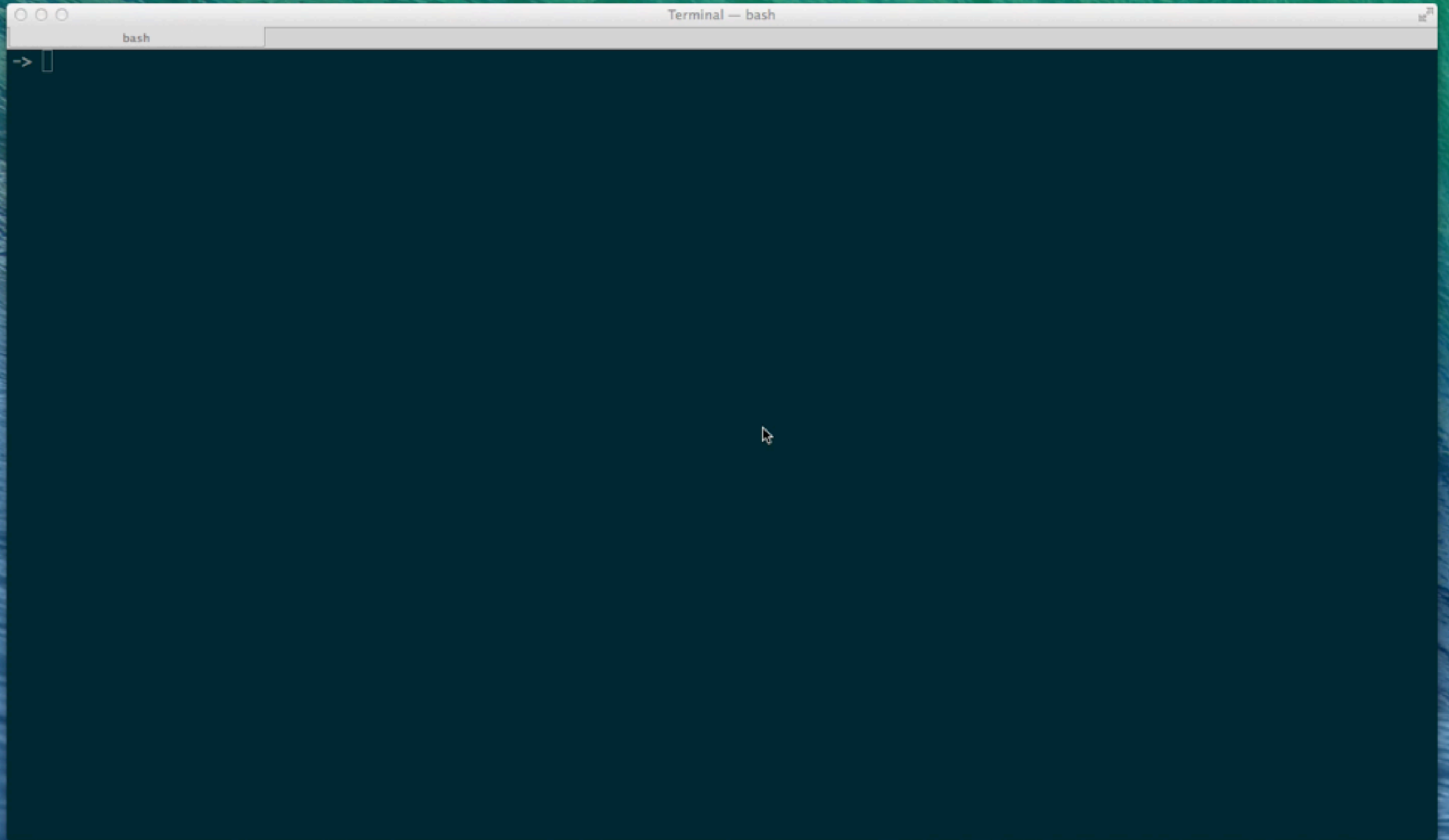
SLOW FOR SCRIPTING



PIXIE IS FAST



PIXIE IS FAST



PIXIE MAGIC

WRITTEN IN RPYTHON

USES THE PYPY TOOLCHAIN
WHICH IS A FRAMEWORK FOR
GENERATING HIGH PERFORMANCE
DYNAMIC PROGRAMMING LANGUAGE
IMPLEMENTATIONS

PYPY

DON'T BE CONFUSED

- **RPYTHON TOOLCHAIN FOR MAKING LANGS**
- **ALSO A PYTHON LANG IMPLEMENTATION ITSELF**

PYPY

VERY GOOD FOR MAKING LANGS

- **VERY FAST**
- **REALLY NICE JIT**
- **GARBAGE COLLECTION**
- **CROSS PLATFORM REACH**
- **STM IN DEVELOPMENT - WHICH WOULD REMOVE THE GIL (GLOBAL INTERPRETER LOCK) AND MAKE GARBAGE COLLECTION THREAD-SAFE)**

PIXIE MAGIC FROM PYPY

- IMPLEMENTS ITS OWN VIRTUAL MACHINE
- HAS ITS OWN BYTECODE, GC, AND JIT
- SMALL AND FAST
- MATH SYSTEM IS POLYMORPHIC (FAST BECAUSE OF JIT)

PIXIE MAGIC FUTURE

- **JIT HINTING (MAYBE)**
- **STM FOR PARALLESIM (YES -
DEPENDENT ON PYPY)**



MEET PIXIE

LET'S SEE SOME EXAMPLES IN ACTION

MEET PIXIE

DOES IT HAVE ALL MY FEATURES NOW?



MEET PIXIE

DOES IT HAVE ALL THE FEATURES
I WANT RIGHT NOW?



NO - STILL VERY YOUNG

BUILD TOOL



<https://github.com/pixie-lang/dust>

LET'S HACK

MISSION: ADD ZIPMAP

[HTTPS://CLOJUREDOKS.ORG/CLOJURE.CORE/ZIPMAP](https://clojuredocs.org/clojure.core/zipmap)