

ThoughtWorks®

BUILD AND TESTING ENVIRONMENTS AS CODE

...because life's too short not to

Charles Korn

MegaBank, Inc.

Exchange rate
service

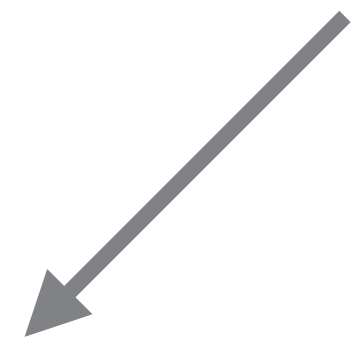


International
transfers service

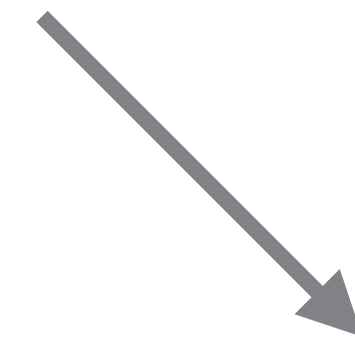


Postgres
database

Development environment



Build environment



Testing environment(s)

THE STATUS QUO

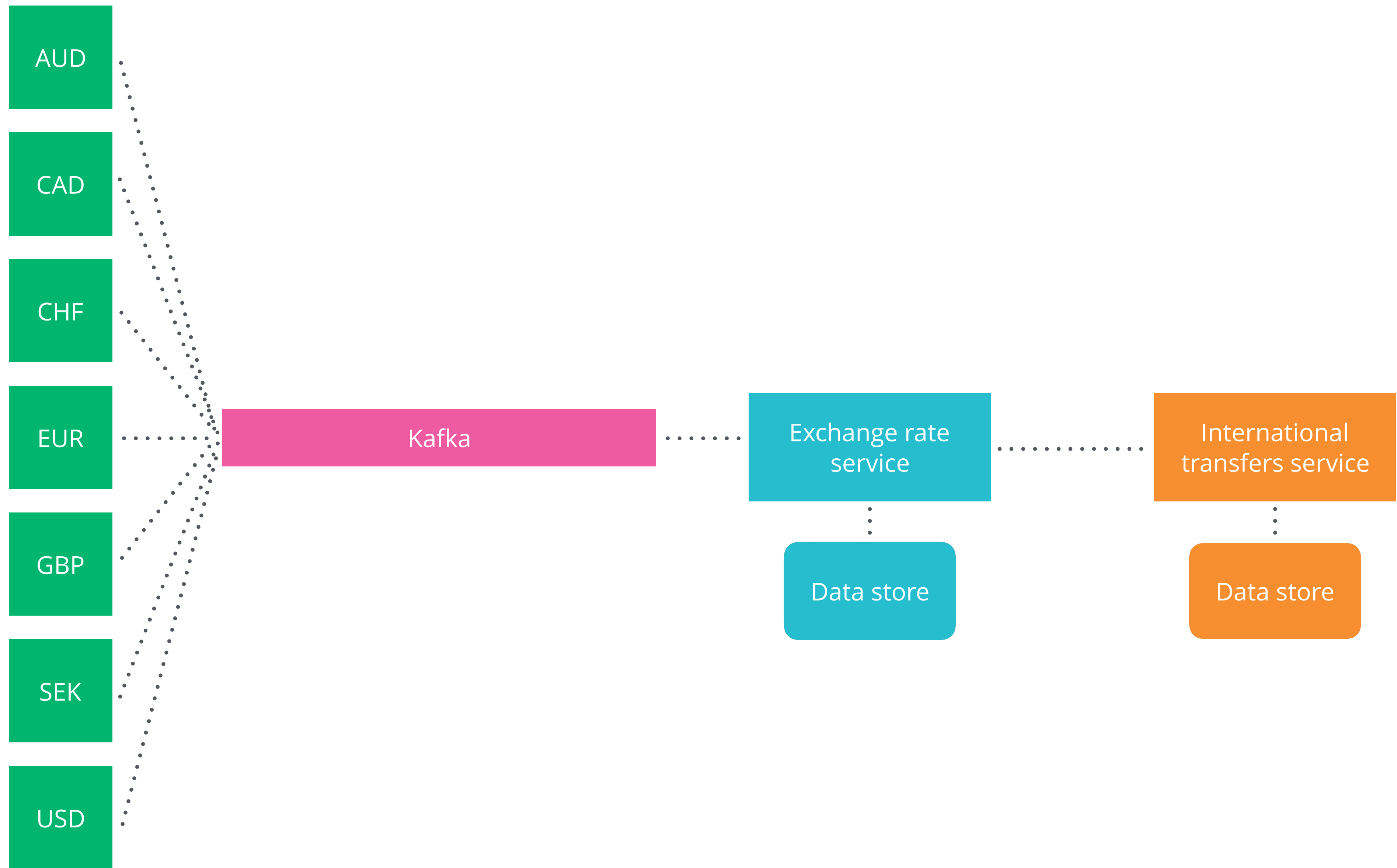
INSTALL



ALL THE THINGS



VAGRANT



WHAT'S WRONG WITH THE STATUS QUO?

Build environments

(In)consistency

Onboarding time

Making changes is hard

No isolation

Overhead

Reproducibility of builds

Team autonomy

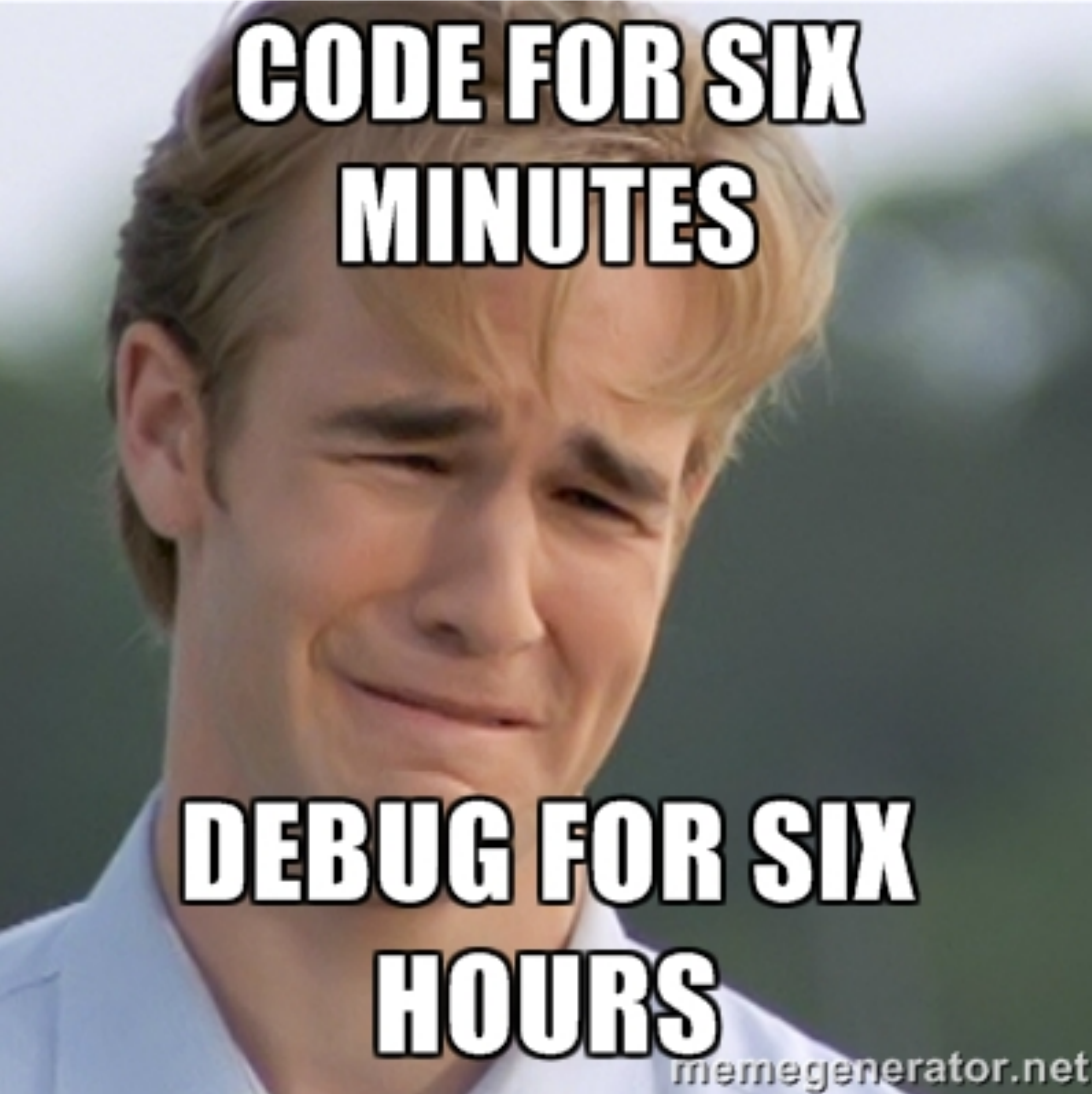
(or lack thereof)

Test environments

It's painful

It's painful

...which leads to further pain



**CODE FOR SIX
MINUTES**

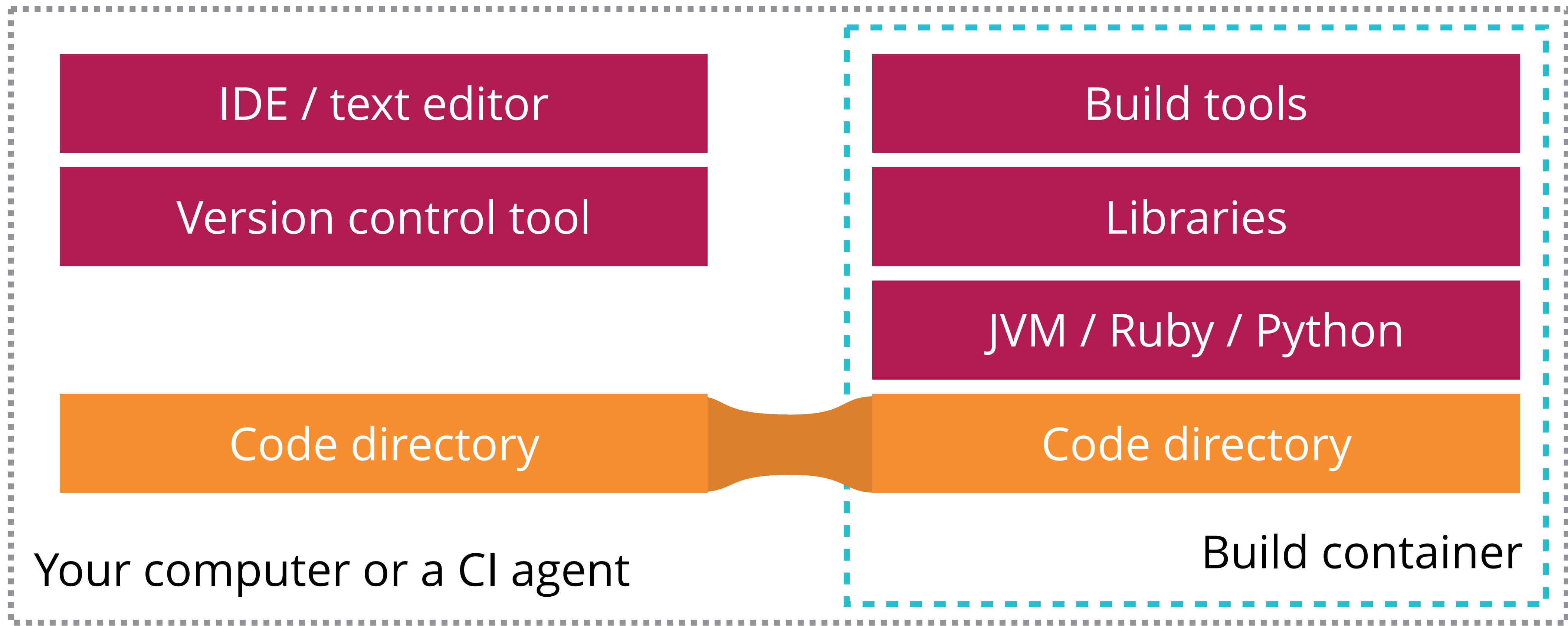
**DEBUG FOR SIX
HOURS**



Image source: [flixcart.com](https://www.flixcart.com)

THE IDEA

Build environment



Consistency

Lightweight



Ephemeral

Ephemeral

...which makes caching impossible

Quick onboarding time

Easy to make changes

batect

***b**uild **a**nd **t**est **e**nvironments as **c**ode **t**ool*

DEMO

Test environment

Exchange rate
service

International
transfers service

Postgres
database



batect

***b**uild **a**nd **t**est **e**nvironments as **c**ode **t**ool*

DEMO

The BEATLES

All You Need Is  docker

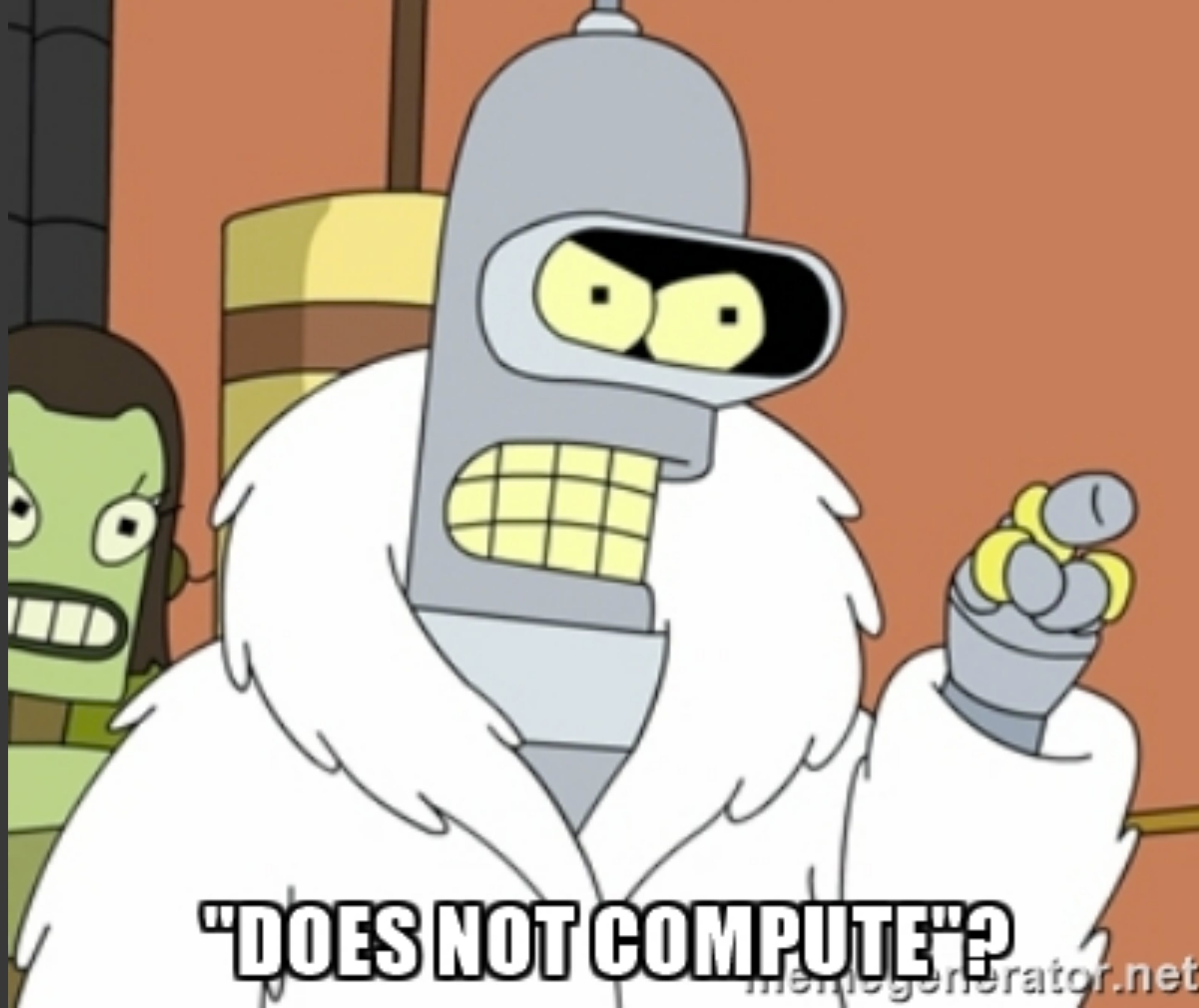
Baby. You're a Rich Man



BUT...

IDE integration

**ARE YOU FAMILIAR WITH THE OLD
ROBOT SAYING**



"DOES NOT COMPUTE"?



QUESTIONS?

THANK YOU

github.com/charleskorn/batect

github.com/charleskorn/batect-sample-java

github.com/charleskorn/batect-sample-ruby

ThoughtWorks®