

Intro to Erlang

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History

- Created in '86
- Open source in '98
- “Programming Erlang” published in '07

Ruby killer?

Absolutely not!

What's Erlang

- Concurrency
- Distribution
- Robustness
- Message
- Process
- Function

Philosophy

- Concurrency Oriented Programming
- Simple
- Lightweight process
- Each job can be a process
- No shared state

Language

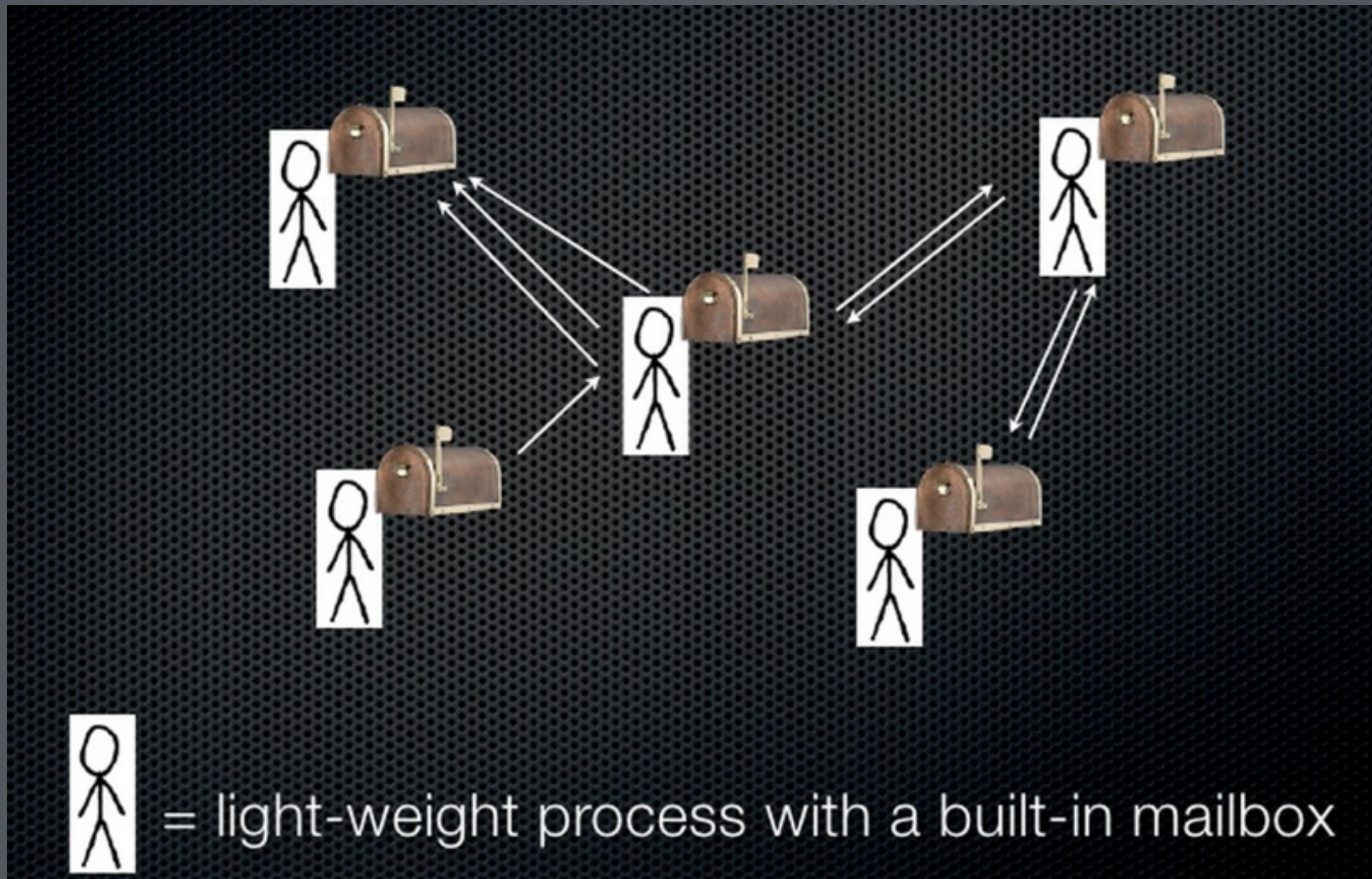
- Functional
- Strong typing
- No mutable variables
- Pattern matching
- Need to compile

Syntax example

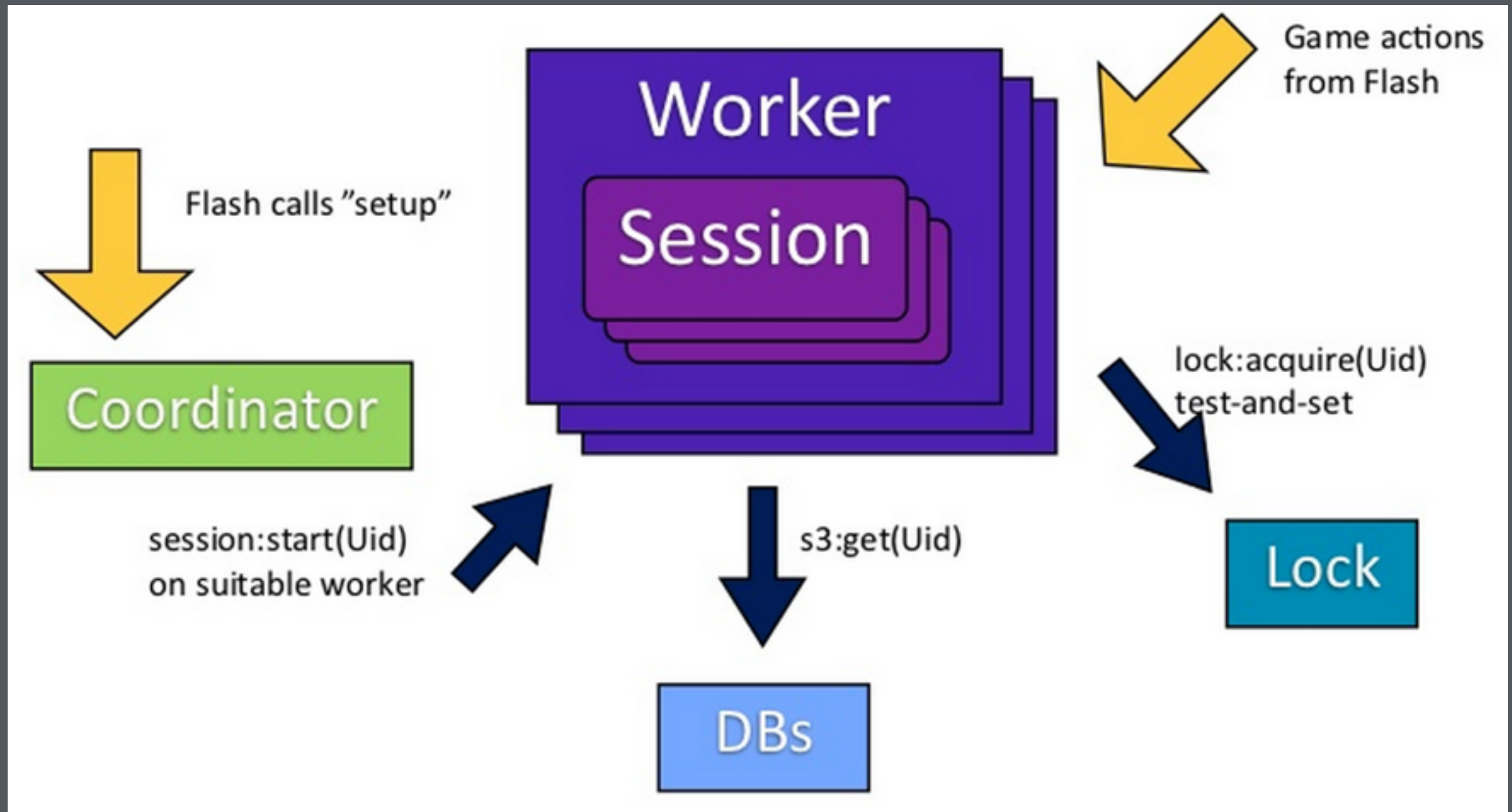
```
remove_leading_whitespace([$\\nIT]) -> remove_leading_whitespace(T);  
remove_leading_whitespace([$\\sIT]) -> remove_leading_whitespace(T);  
remove_leading_whitespace([$\\tIT]) -> remove_leading_whitespace(T);  
remove_leading_whitespace(X) -> X.
```

```
max(A, B) when is_integer(A), is_integer(B), A > B ->  
  A;  
max(A, B) when is_integer(A), is_integer(B) ->  
  B;  
max(A, B) ->  
  [A, B].
```


Architecture



Architecture - online game



Libraries

- OTP
- Supervisor trees
- Mnesia/ETS/DEST
- Web frameworks (mochiweb, misultin)
- JSON

Who are using Erlang?

- What's App
- Facebook (chat, ajax + comet)
- Amazon (SimpleDB)
- Twitter (IM)
- RabbitMQ / CouchDB

Questions?