Daniel Huffman

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Cosmos Team

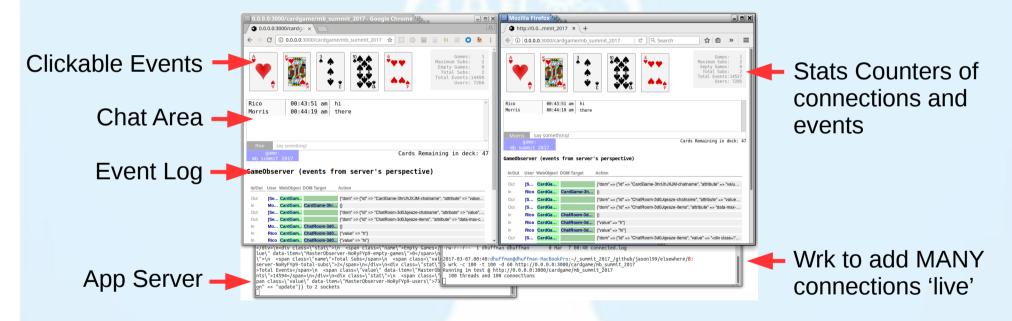
Clearwater office

https://github.com/drhuffman12/presentations/tree/master/lattice-core

Realtime-first web framework

https://github.com/drhuffman12/presentations/blob/master/lattice-core/

LatticeCore.CardGame.mp4



Realtime-first web framework
Based on
Crystal, Kemal, WebSockets,
Baked File System, etc.

Jason Landry

https://github.com/jasonl99

Realtime-first web framework

Server-side:

- Ruby-like developer-friendly source code syntax
- C-like speed
- Single compiled application binary
- Web assets bundled
- Browser session connected to server WebSocket
- Cross-platform (WIP)



Realtime-first web framework

Client-side:

- Multiple users
- Multiple content subscriptions per user session
- Sessions/WebSockets tied to content subscribers
- All subscribers' content areas dynamically updated

Realtime-first web framework

Lattice Core

https://github.com/jasonl99/lattice-core

Crystal-lang

https://crystal-lang.org/

Kemal

http://kemalcr.com/

Baked File System

https://github.com/schovi/baked_file_system

Card Game (Example Lattice Core App) https://github.com/jasonl99/card_game

Realtime-first web framework

Install Git

https://git-scm.com/

Install Crystal

https://crystal-lang.org/docs/installation/index.html

Clone Card Game

git clone https://github.com/jasonl99/card_game.git

Update dependencies

shards update

Compile App

crystal build --release src/card_game.cr

[Optional] Deploy only binary

mkdir -p ../elsewhere cp card_game ../elsewhere cd ../elsewhere # ... or to AWS or etc.

Run server binary

./card_game

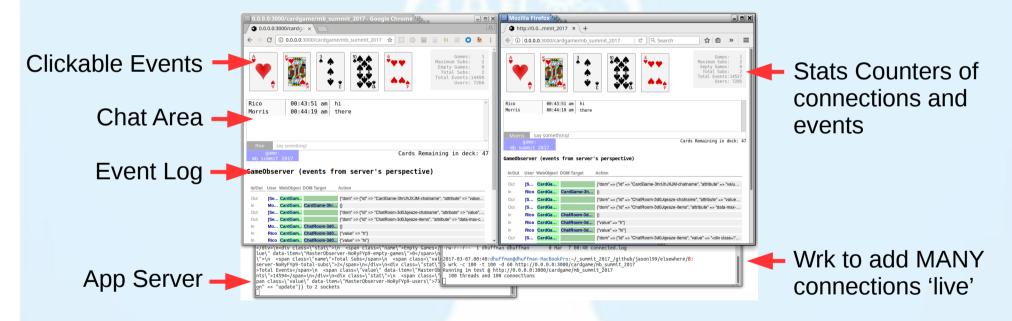
Browse Web App

http://0.0.0.0:3000/cardgame/<game_room>

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Realtime-first web framework

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Realtime-first web framework

Therefore, I think we should take a deeper look at new technologies that are developer friendly and highly performant like Lattice-core, Kemal, Crystal, and WebSockets, so that we can keep our developers productive and our customers' experience zippy.