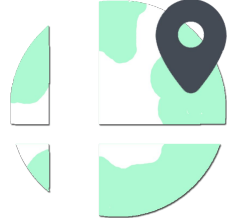# Smash Search

A Super Smash Brothers Tournament Locator
By Tyler P. Berkshire

Fable

- F# to JavaScript compiler
- Functional programming
  - Pattern Matching
  - Immutable Data
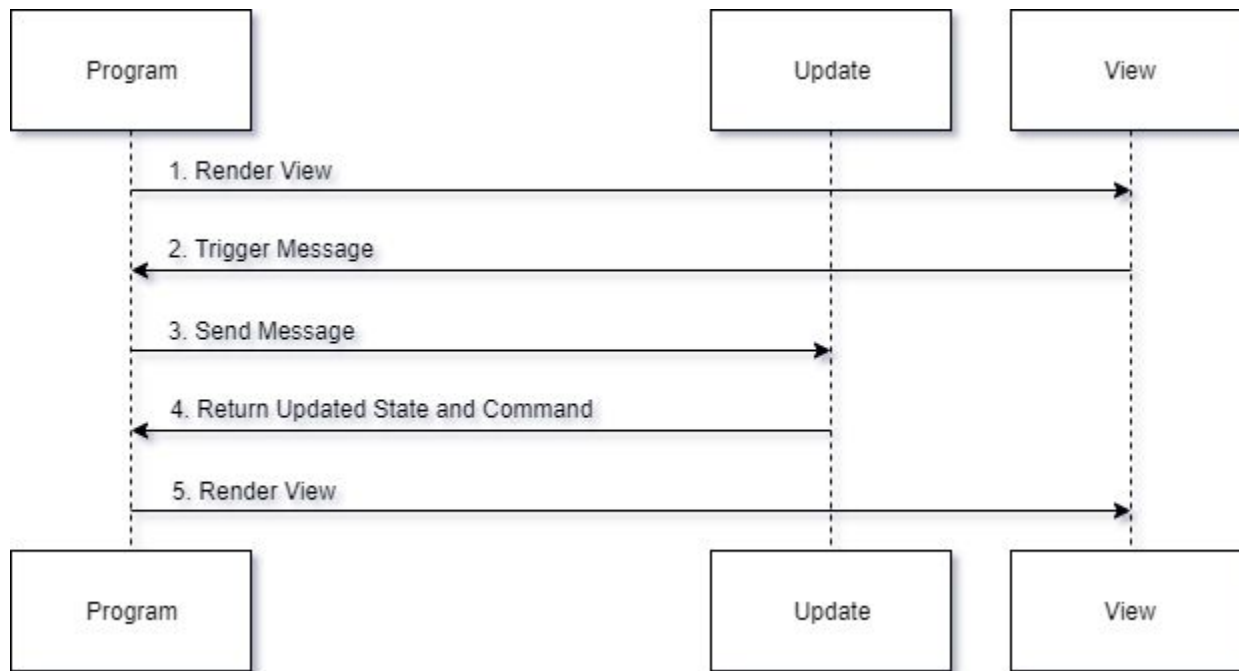 - Type Safety
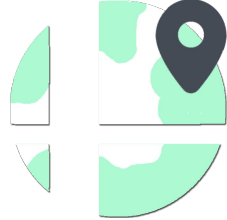- Not a full coverage of F#

Elmish

- Fable Package
- Implements Elm Architecture
  - Used for interactive program design
  - "Model view update"
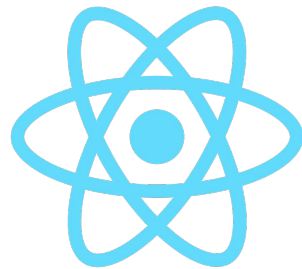- Dispatch loop for promises/async operations

Dispatch Loop

React

- Elmish applications can run w/out a UI
- React provides components for render
  - All basic HTML elements
  - Function components
  - DOM hooks

Smash.gg API

- GraphQL
  - Clients control data they receive
  - Multiple data from one request
- Tournaments by location
  - Variables
    - perPage: maximum items to load
    - coordinates: Lat/Long of location
    - maxDistance: distance to search from coordinates
  - Data
    - Name, venue address, date, events, entrants…

Code & Demo