

Bibek Pandey - Elixir Hangman Portfolio Deck

```
$ mix escript.build
$ ./hangman_game -n martha -t robot -r 1 -d
#martha_feed --> Game 1 has started
#martha_feed Game 1, secret length --> 10
#martha_feed Game 1, letter --> e
#martha_feed Game 1, Round 1, status --> -----; score=1;
status=KEEP GUESSING
#martha_feed Game 1, letter --> i
#martha_feed Game 1, Round 2, status --> ----I--: score=2;
status=KEEP_GUESSING
#martha_feed Game 1, letter --> s
#martha_feed Game 1, Round 3, status --> ----IS-I-; score=3;
status=KEEP_GUESSING
#martha feed Game 1, letter --> t
#martha_feed Game 1, Round 4, status --> ----ISTI-; score=4;
status=KEEP_GUESSING
#martha_feed Game 1, letter --> a
#martha_feed Game 1, Round 5, status --> ---A-ISTI-; score=5;
status=KEEP_GUESSING
#martha_feed Game 1, letter --> r
#martha_feed Game 1, Round 6, status --> ---A-ISTI-; score=6;
status=KEEP_GUESSING
#martha_feed Game 1, letter --> d
#martha_feed Game 1, Round 7, status --> D--A-ISTI-; score=7;
status=KEEP_GUESSING
#martha_feed Game 1, word --> dynamistic
#martha_feed Game 1, Round 8, status --> DYNAMISTIC; score=7; status=GAME_WON
#martha_feed Game Over!! --> Game Over! Average Score: 7.0, # Games: 1, Scores:
 (DYNAMISTIC: 1)
```

```
--name (player id) --type ("human" or "robot") --random (num random secrets, max 1000) [--secret (hangman word(s)) --baseline] [--log --display -timeout] [--parallel (suggested w/40 secrets or more)]

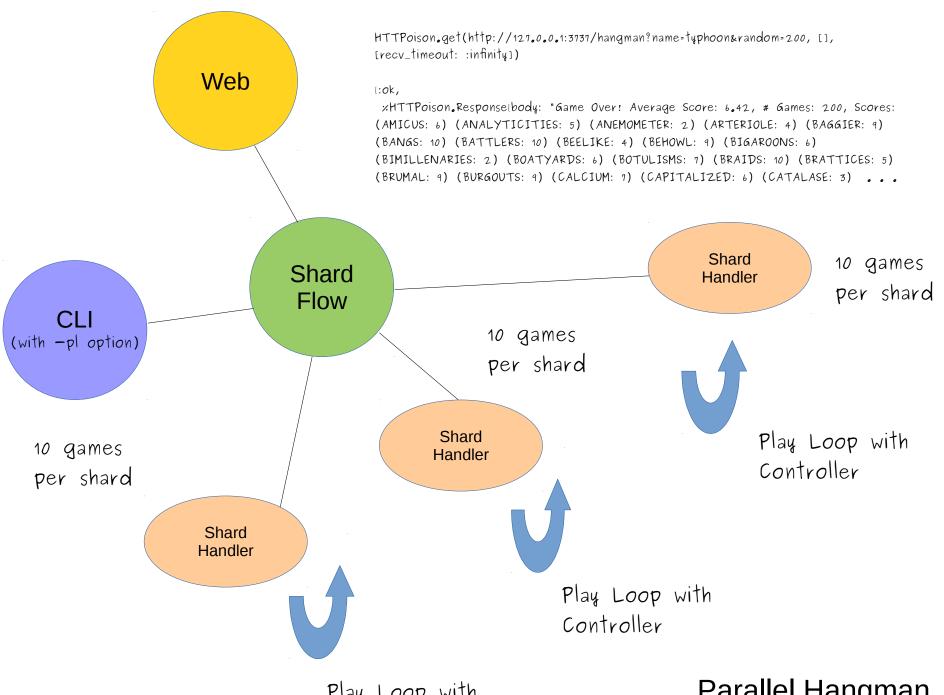
or aliases: -n (player id) -t ("human" or "robot") -r (num random secrets, max 1000) [-s (hangman word(s)) -bl] [-l -d -ti] [-pl]

Handler
```

Hangman Command Line

Play Loop with

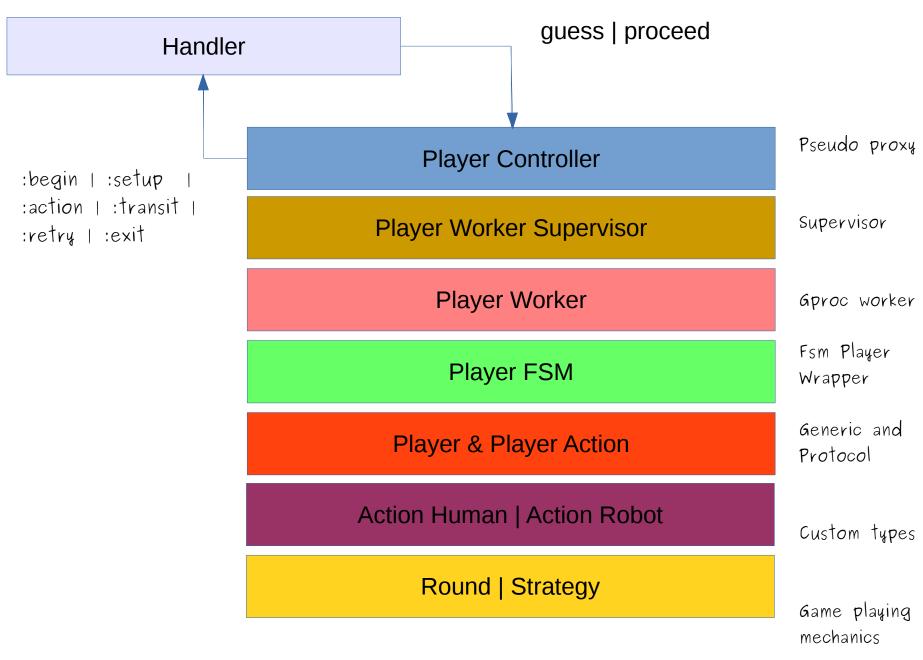
Controller



HTTPoison.get http://127.0.0.1:3737/hangman? name=typhoon&secret[]=eel&secret[]=porcupine

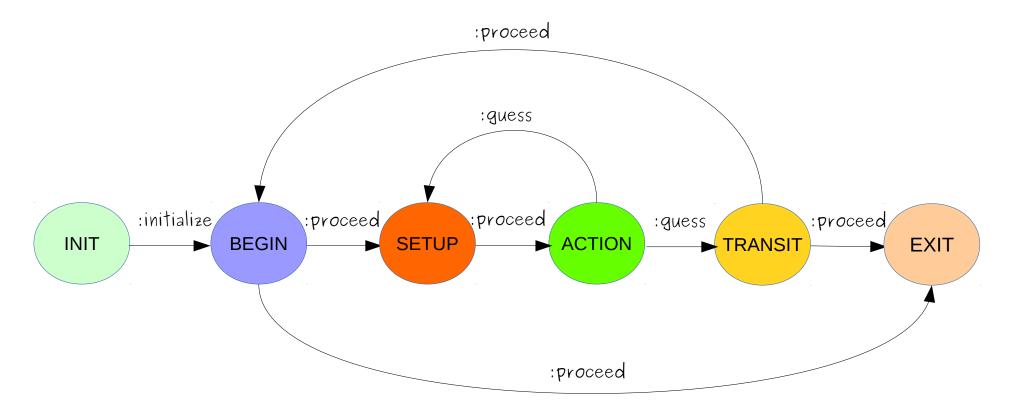
Play Loop with Controller

Parallel Hangman



Player Abstraction Stack

Player Finite State Machine Flow



init - Start state

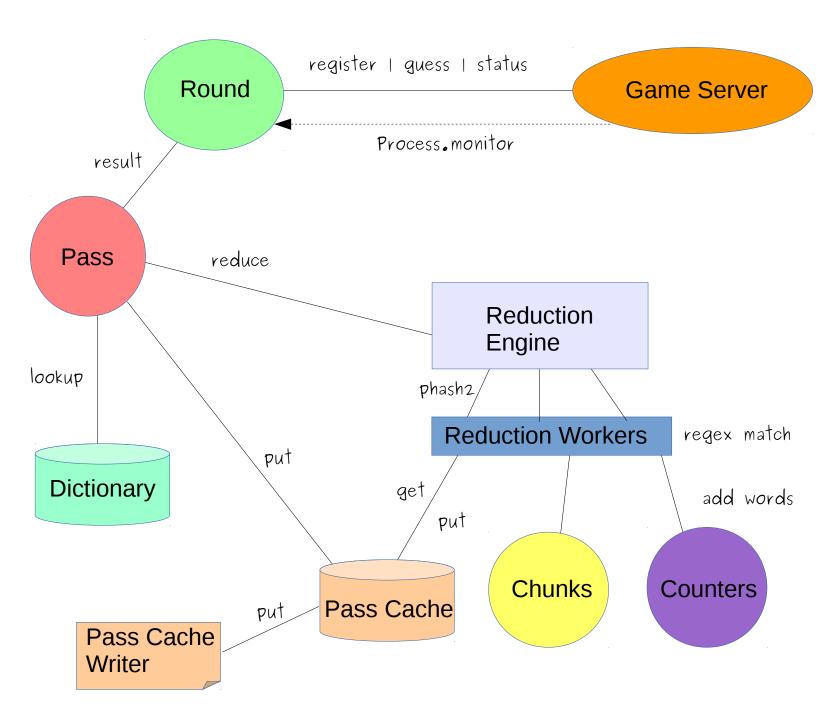
begin - Start new game, if previous game is :abort and no games left → :exit

setup - Setup round guess, if : human ask for letter input

action - Perform guess, if more rounds left go back to :setup else :transit

transit - Single game over, start new game or exit if all games finished

exit - Games over!



Player System Interaction

