

STATE MARKET BACK

ET UNNEFRONNUR ANTÆRREDUCER

MAGNUM2-QUALITÉ D'SI-THC N°1 MAS H&A ES LÉ & DUE N°1 BURG

```
const reducer: (state: State, command: Command) => State =
  (state: State, command: Command) => {
    {
      switch (state.type) {
        case "idle": {
          switch (command.type) {
            case "face": return idle();
            case "start": return moving();
            default: throw new Error("Impossible");// 🤮
          }
        }
        case "moving": {
          switch (command.type) {
            case "stop": return idle();
            default: throw new Error("Impossible");// 🤮
          }
        }
      }
    }
  }
}
```







STATE MACHINE STRIKE BACK

ET UNE FONCTION D'UPDATE = REDUCER



ERREURS

FP-TS

```
import { pipe } from 'fp-ts/function';
import * as E from 'fp-ts/Either';

type State = E.Either<Error, Idle | Moving>
const initialState: State = pipe(idle(), E.right);

const reducer = (state: State, command: Command) => {
  // ⚠️ `chain` is `flatMap` or `bind` name in fp-ts;
  // be carefull bind is js Function.prototype.bind ... naming are hard
  return E.chain(
    // 😞 TS inference is bad, you will often need to help the typer
    (state: Idle | Moving): E.Either<Error, Idle | Moving> => {
      switch (state.type) {
        case "idle": {
          switch (command.type) {
            case "face": return pipe(idle(), E.right); // idle () |> E.right
            case "start": return pipe(moving(), E.right);
            case "stop": return pipe(new Error("Illegal Action from Idle"),
                                     E.left); // 😎
          }
        }
        case "moving": {
          switch (command.type) {
            case "stop": return pipe(idle(), E.right);
            default: return pipe(new Error("Illegal Action from Moving"),
                                  E.left); // 😎
          }
        }
      }
    }
  )(state)
}
```