

INDUS POUVOIR ÉCRIRE DES TRANSITIONS VALIDES

SURVIVAL STRATON

```
const invalid = pipe(  
  face("East"),  
  stop_  
)
```

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  face("East"),  
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  face("East"),  
  stop_  
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```

MAGNET 2-DUALS - TRANSLES







SUIVRE LES TRANSITION

NOUS POUVONS ÉCRIRE DES TRANSITIONS INVALIDES



```
const invalid = pipe(  
  face("East"),  
  stop_  
)
```

SUIVRE LES TRANSITION

APPROXIMATION D'UN GADT

```
import { identity } from "fp-ts/lib/function";

type Direction = "North" | "East" | "South" | "West"

type Command<A, B, C> =
  | { kind: "Face", direction: Direction, proof: (_a: A) => A }
  | { kind: "Start", proof: (_a: A) => B }
  | { kind: "Stop", proof: (_a: A) => B }
  | { kind: "Chain", first: Command<A, B, any>, second: Command<B, C, any> }

const face = (d: Direction)
  : Command<"Idle", "Idle", void> => ({ kind: "Face", direction: d, proof: identity<"Idle"> })
const start = (): Command<"Idle", "Moving", void> => ({ kind: "Start", proof: (_: "Idle") => "Moving" })
const stop_ = (): Command<"Moving", "Idle", void> => ({ kind: "Stop", proof: (_: "Moving") => "Idle" })
const chain = <A, B, C>(first: Command<A, B, any>, second: Command<B, C, any>)
  : Command<A, C, any> => ({ kind: "Chain", first, second }) as Command<A, C, any>
```