Michael Saner

Week 1 Assignment - Real Life, Flowcharted

October 3, 2013

Web Programming Fundamentals - Online

```
                                            pajamas
                                            are fine
                                               ↑
                                              No
                                               │
  get          ┌──────────┐              choose
  dressed ──→  │ is it a  │              new shirt ←──────┐
              │ workday  │                  │             │
               └──────────┘                  ↓             │
                   │                     ┌──────────┐   ┌──────────┐  No
                  Yes                    │ put on   │   │  does    │ ──→
                   │                     │ shirt    │──→│ everything│
                   ↓                     └──────────┘   │ match?   │
  ┌──────────┐  ┌──────────┐  ┌──────────┐             └──────────┘
  │ get out  │  │ change   │  │ put on   │                  │
  │ of       │→ │ underwear│→ │ pants    │→                Yes
  │ pajamas  │  └──────────┘  └──────────┘                  │
  └──────────┘                                              ↓
                                                      ┌──────────┐
                          choose ──────────────────→  │ put on   │
                          new socks                   │ socks    │
                             │                        └──────────┘
                             │                             │
                        ┌──────────┐  No                   ↓
                        │  does    │ ←───────────   ┌──────────┐  Yes   put on
                        │ everything│               │  does    │ ──→    shoes
                        │ match?   │                │ everything│
                        └──────────┘                │ match?   │
                                                    └──────────┘
```

```
                                          ┌──────────────────┐
                                          │  stir food around │◄──────┐
                                          └──────────────────┘        │
   ┌──────────────┐                              │                    │ No
   │    Go to      │                              ▼                    │
   │  McDonalds    │                      ┌─────────────┐        ╱╲
   └──────────────┘                       │    Enter    │      ╱    ╲
        ▲                                 │    cook     │────►│ is it   │
        │ No                              │    time     │      ╲ done? ╱
    ╱╲                    ╱╲              └─────────────┘        ╲╱
  ╱      ╲   Yes        ╱      ╲   Yes   ┌──────────────┐         │
 │ brought │────────►│ requires │────►│ go to microwave │        │ Yes
  ╲ food? ╱           ╲ cooking?╱        └──────────────┘         │
    ╲╱                    ╲╱                                       │
 go on                    │ No                                    │
 lunch ──────►            ▼                                        │
                  ┌──────────────────┐                            │
                  │ find a place to eat│◄─────────────────────────┘
                  └──────────────────┘
                          │
                          ▼
                  ┌──────────────┐
                  │  enjoy lunch │
                  └──────────────┘
```

Flowchart: Lunch decision process

- go on lunch → brought food?
  - No → Go to McDonalds
  - Yes → requires cooking?
    - No → find a place to eat
    - Yes → go to microwave → Enter cook time → is it done?
      - No → stir food around → Enter cook time
      - Yes → find a place to eat
- find a place to eat → enjoy lunch

```
                                      ┌──────────────┐          ┌──────────────┐
                                      │   buy        │          │  plug in the │────────────────────────────────┐
                                      │   bread      │          │   toaster    │                                │
                                      └──────────────┘          └──────────────┘                                │
                                             ▲                         ▲                                         │
                                             │ No                      │ No                                      │
                                                                                                              No │
                                         ◇ is there ◇            ◇ is the ◇          ┌──────┐     ╱choose╱      ┌────┐        ◇ is it ◇
  ┌─────────┐        ◇ bread? ◇     ◇ toaster ◇     │ put  │────▶╱toaster╱────▶│toast │────▶ ◇toasted◇
  │  Make   │───────▶◇          ◇─────▶◇ ready? ◇────▶│bread │     ╱setting╱     │ pops │       ◇enough?◇
  │  toast  │        ◇          ◇ Yes ◇          ◇ Yes │  in  │    ╱        ╱     │  up  │       ◇        ◇
  └─────────┘        ◇          ◇     ◇          ◇     └──────┘                   └──────┘        ◇      ◇
                                                                                                    │ Yes
                                                                                                    ▼
                                                                                              ┌──────────┐
                                                                                              │Enjoy your│
                                                                                              │  toast   │
                                                                                              └──────────┘
```

Flowchart: Make toast

- Make toast → is there bread?
  - No → buy bread
  - Yes → is the toaster ready?
    - No → plug in the toaster → put bread in
    - Yes → put bread in
- put bread in → choose toaster setting → toast pops up → is it toasted enough?
  - No → plug in the toaster
  - Yes → Enjoy your toast