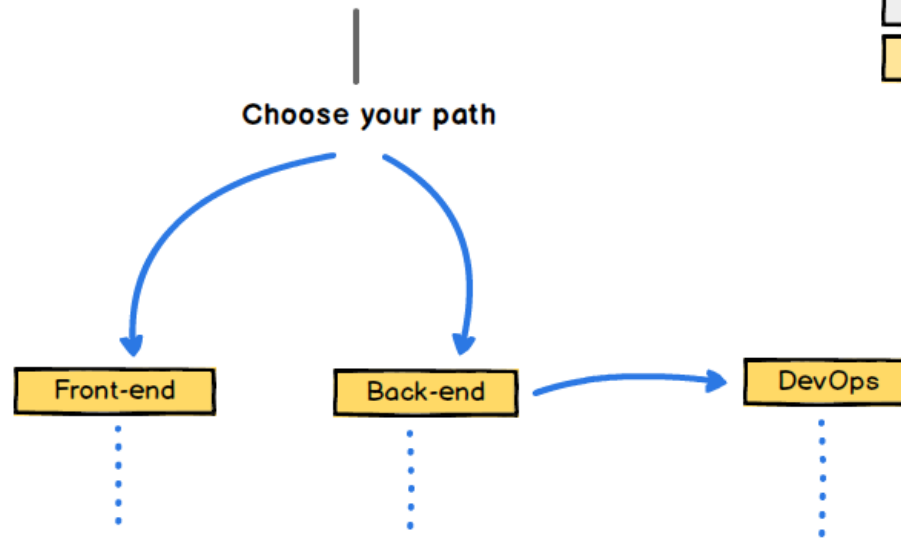


Choosing your path

Required for any path

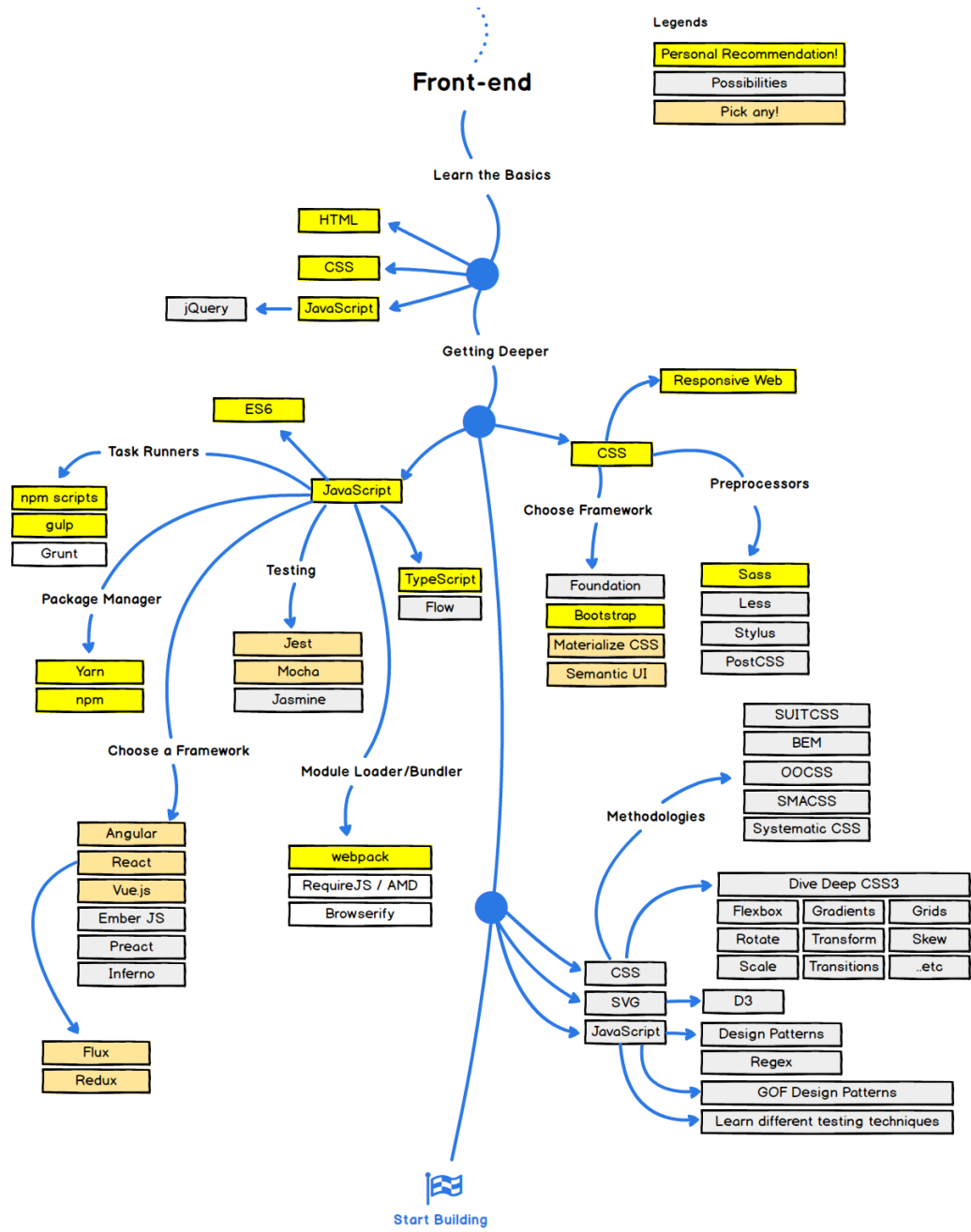
- Git - Version Control
- SSH
- HTTP/HTTPs and APIs
- Basic Terminal Usage
- Learn to Research
- Datastructures & Algorithms
- Character Encodings
- Github
- Create your profile. Explore the relevant opensource projects. Make your habit to look under the hood for the projects you like. Create and contribute to opensource projects.

Web Developer in 2017



Legends

- Personal Recommendation!
- Possibilities
- Pick any!



Legends

- Personal Recommendation!
- Possibilities
- Pick any!

Front-end

Learn the Basics

Getting Deeper

Start Building

Task Runners

- npm scripts
- gulp
- Grunt

Package Manager

- Yarn
- npm

Choose a Framework

- Angular
- React
- Vue.js
- Ember JS
- Preact
- Inferno

- Flux
- Redux

ES6

JavaScript

- Jest
- Mocha
- Jasmine

Module Loader/Bundler

- webpack
- RequireJS / AMD
- Browserify

- TypeScript
- Flow

Choose Framework

- Foundation
- Bootstrap
- Materialize CSS
- Semantic UI

Preprocessors

- Sass
- Less
- Stylus
- PostCSS

Methodologies

- SUITCSS
- BEM
- OOCSS
- SMACSS
- Systematic CSS

Dive Deep CSS3

- Flexbox
- Gradients
- Grids
- Rotate
- Transform
- Skew
- Scale
- Transitions
- .etc

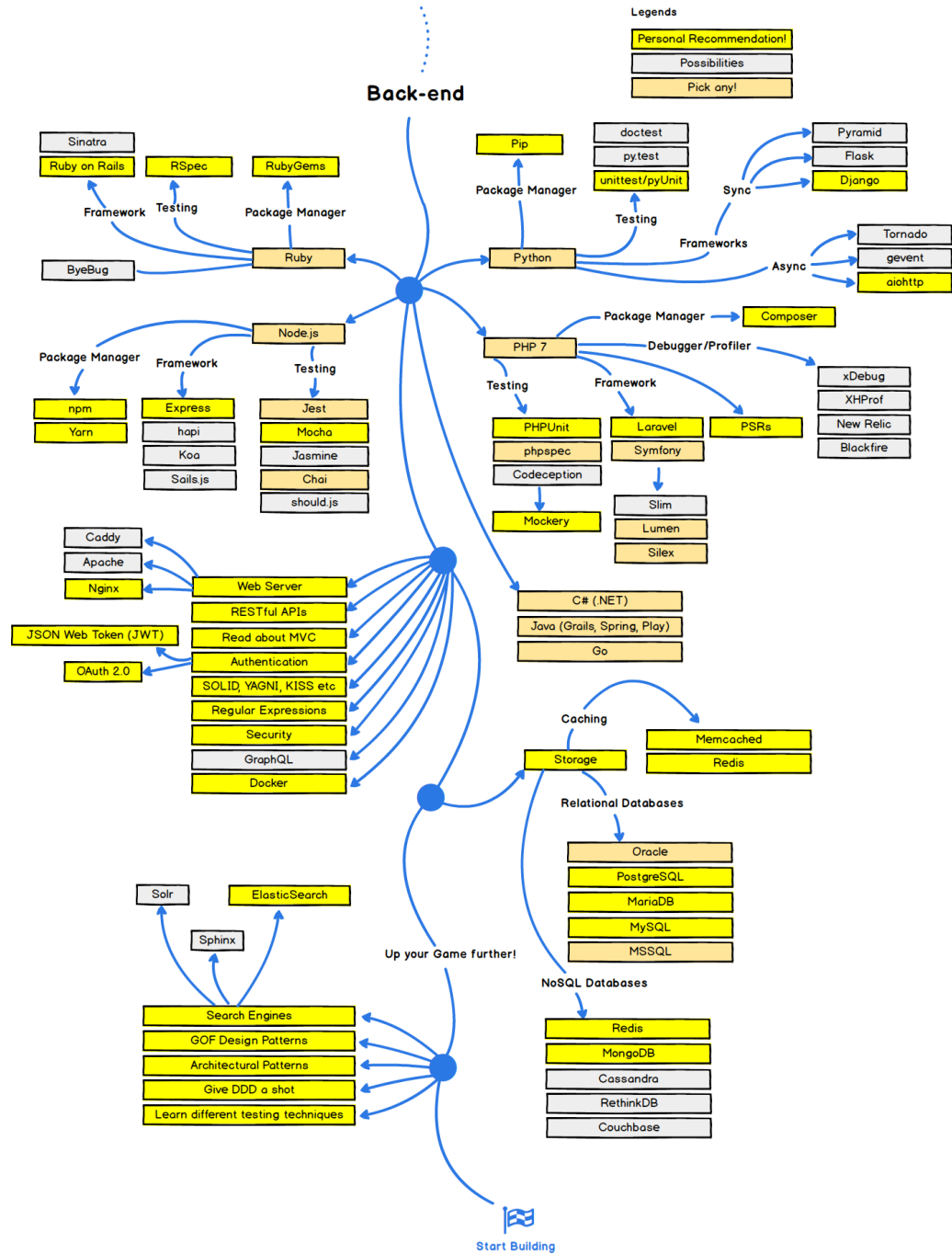
- CSS
- SVG
- JavaScript

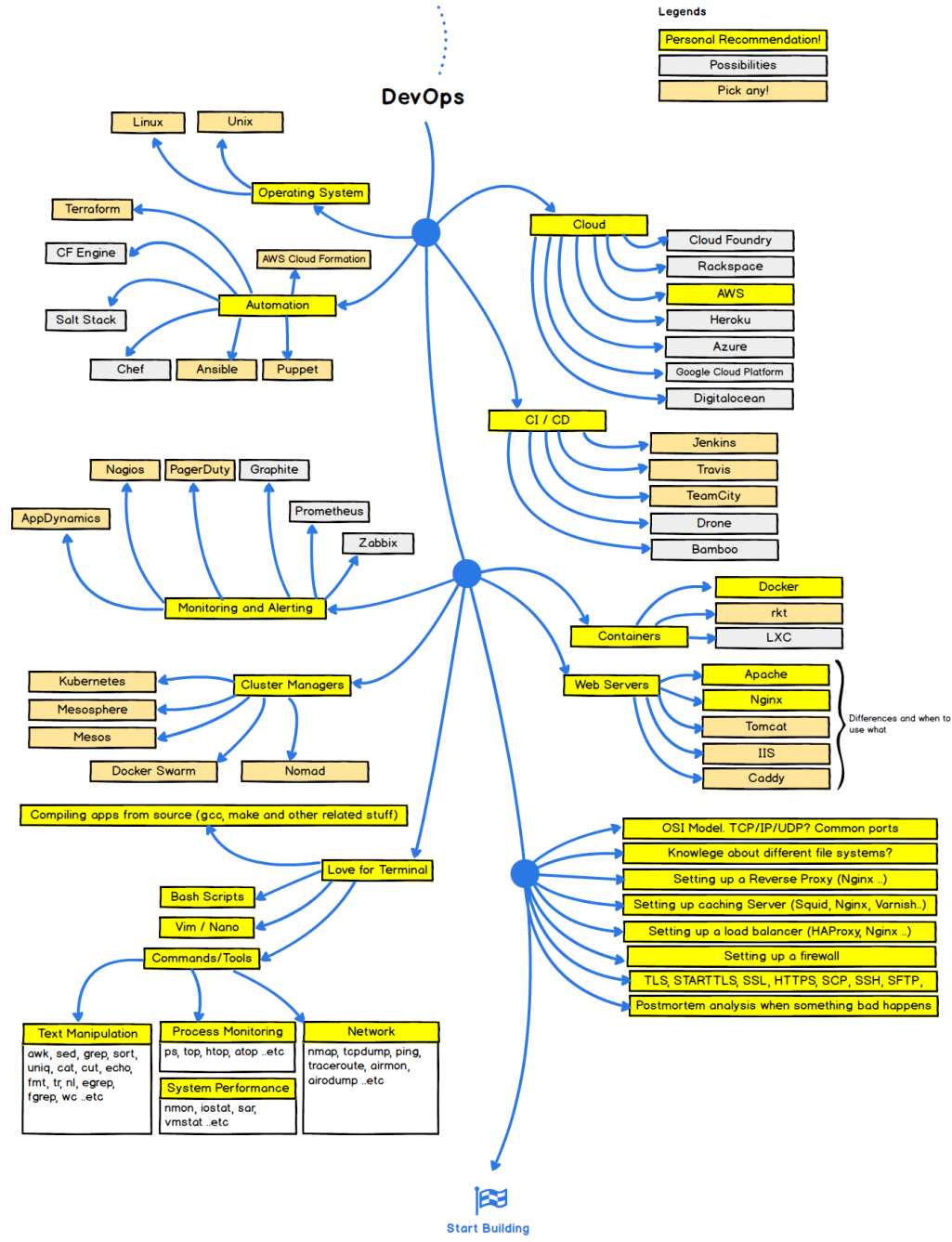
D3

- Design Patterns
- Regex

GOF Design Patterns

- Learn different testing techniques





Choosing technology stack

- One of the keys to a successful MVP (Minimum Viable Product) is reducing time to market
- Many talented developers are excited by the prospect of working with latest tools, and actively avoid technologies that aren't considered innovative
- Do not use a technology just because its trendy

The technology behind Tviso

Web -> API -> DB & Microservices


Web

- HTML5
- CSS3
 - SCSS with BEM methodology


```
<h1 class="Header__title--small">Page title</h1>
```

```
.Header { // Block
  &__title { // Element
    font-size: 16px;

    &--small { // Modifier
      font-size: 12px;
    }
  }
}
```

- Javascript (ECMAScript 6 *with babel*)
 - Vue.js  <https://vuejs.org/>
 - The mandatory `Hello World` example
<https://jsfiddle.net/chrisvfritz/50wL7mdz/>
 - Components
 - Reactivity
 - State Management
 - Routing
 - Server-Side rendering
 - ...
 - Lodash (utility library)
 - Webpack (Hot reloading, assets bundler + minification)

API

- PHP (Slim Framework )
 - Memcached

Web server, DB & Microservices

- MySQL
- MongoDB (NoSQL - Not relational. Allows for high concurrency)
- Redis
- Nginx

Team collaboration

- Git
- Vagrant
- GitLab (Task management, Code review, ...)

SaaS (Software as a Service)

- Cloudflare
- New Relic
- GitLab

Opensource

- Never Stop Learning
- KISS (Keep it simple and stupid)
- DRY (Don't repeat yourself)
- Avoid early optimization
- Keep hacking, keep building experience
- Find people who inspire you, but dont idolize them
- Don't devalue your work
- Don't feel pressured to work all the time
- Code isn't static, it will change, evolve, don't focus on making it pretty, focus on make it work and then spend some time polishing
- Take on big projects. Get uncomfortable. Avoid the comfort zone