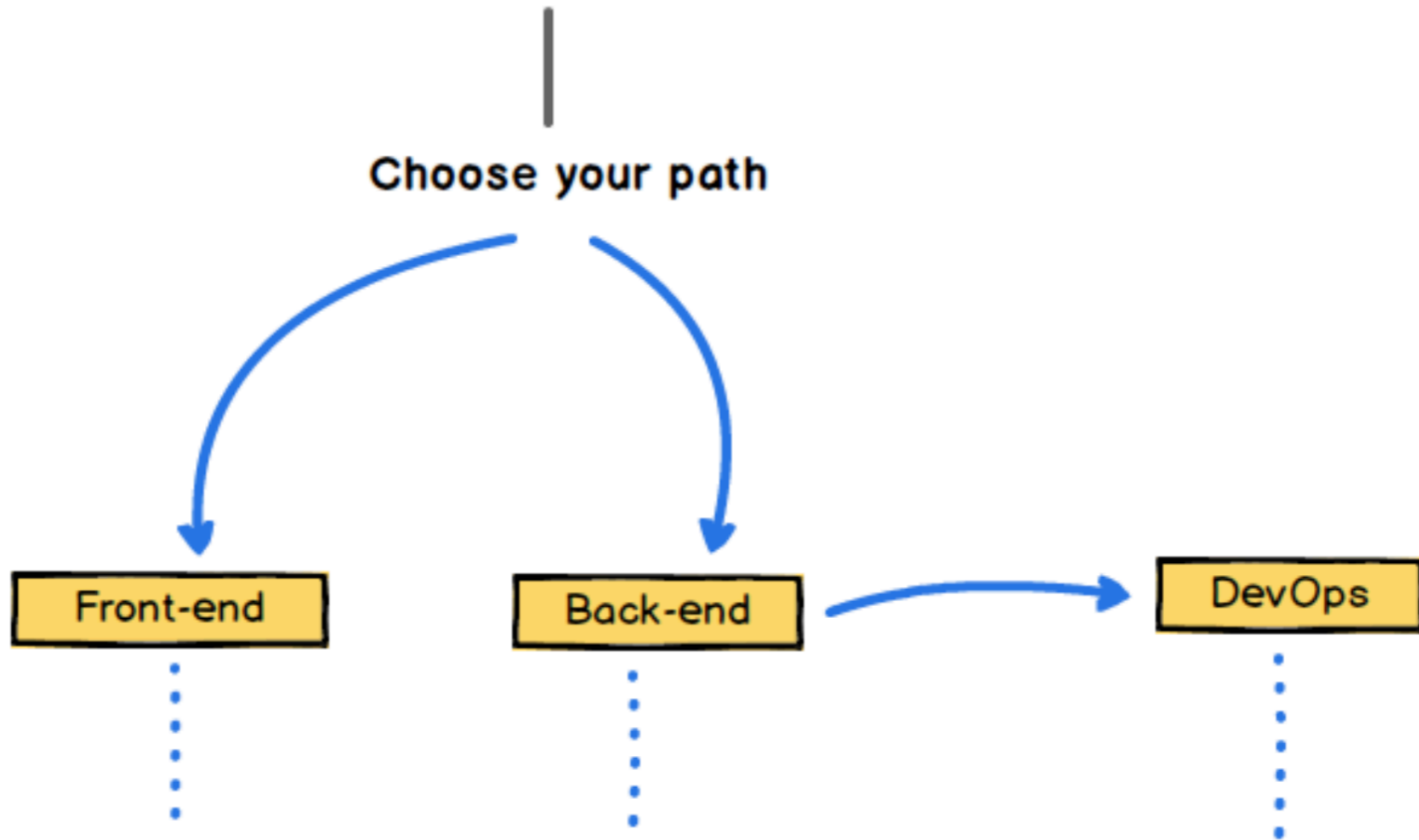


Modern Developer - Road Map

<https://github.com/kamranahmedse/developer-roadmap>

Web Developer in 2018



Front-end + Back-end + DevOps == Full Stack

Front-end Labs

Lab-1.1: Editing HTML



editor · files · text · tags · browser · reference

Lab-1.2: HTML Structure



folders · head · title · link · image · references

Lab-2 CSS Intro



inheritance · classes · fonts · colours · indentation · best practices

Lab-3a Layout



fonts · content · images · classes · folding editor · sidebar · float

Lab-3b Multicolumn



header · maincontent · navigation · footer · primary · secondary

Lab-4a Navigation



nav · tab · current · padding · border · menu · li · ul

Lab-4b Case Study



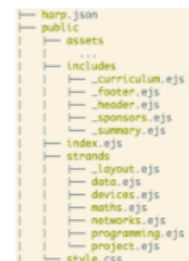
header · main · nav · aside · article · footer · section · figure

Lab-5a Harp & Surge



Install software tools to serve a web site locally and also to deploy the web site to a public web server.

Lab-5b Templating



Rebuild the IoT web site from the last lab using templating. This version of the site will aim to significantly reduce the content the author has to manage by reusing 'templates' containing common sections.

Lab-5c Templating & Nav



Rework the tabbed navigation site from lab 04 to use EJS template

Lab-6a Semantic UI 1












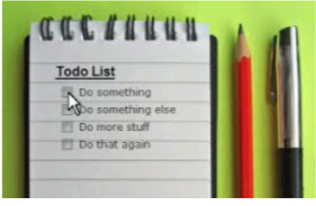



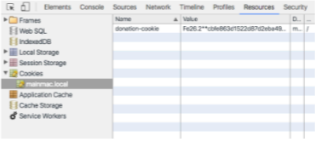









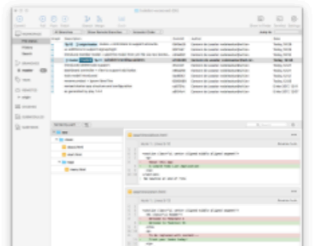
Rebuild the IoT web site using semantic-ui

Lab-6b Semantic UI 2



Continue to enhance the IoT web site with additional Semantic-UI styles & Components

Back-end Labs

<p>Lab-07a Play Setup </p>  <p>PLAY VIDEO</p> <p>Install and test Git + the Play Framework</p>	<p>Lab-07b Playlist 1 </p>  <p>PLAY VIDEO</p> <p>Import, rename and run a new starter project. Extend the project to include a Model.</p>	<p>Lab-08a Playlist-2 </p>  <p>Move the playlist model into the database. Prime the database from a YAML file.</p>	<p>Lab-08b Playlist-3 </p>  <p>Move the playlists into their own view. Introduce routes for opening the playlist and also deleting individual songs.</p>
<p>Lab-09b Todolist-1 </p>  <p>Develop a completely new application, using the techniques we have explored so far.</p>	<p>Lab-09a Playlist-4 </p>  <p>Introduce forms into a play application to enable the user to create playlists.</p>	<p>Lab-10 Todolist-2 </p>  <p>PLAY VIDEO</p> <p>Incorporate sessions tracking into the todo app</p>	<p>Lab-11a Playlist Review </p>  <p>Review the Playlist Application</p>
<p>Lab-11b Playlist 5 </p>  <p>Incorporate Sessions into the latest Playlist Application</p>	<p>Lab-12a Deploy </p>  <p>Deploy a Play Application to the cloud</p>	<p>Lab-12b Git: Sourcmtree </p>  <p>Install and Configure Sourcmtree</p>	<p>Lab-12c Todolist-3 </p>  <p>Rebuild Todolist - this time committing to git version control as the app is composed.</p>

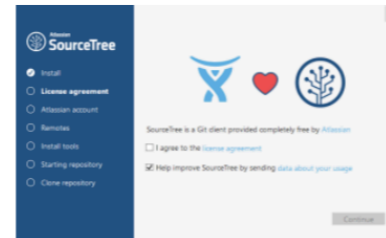
Devops Labs

Lab-12a Deploy



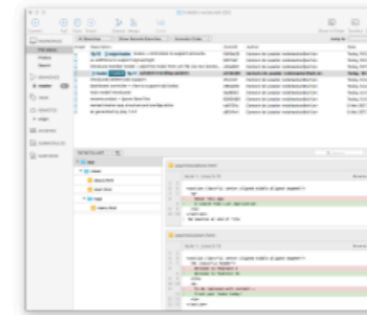
Deploy a Play Application to
the cloud

Lab-12b Git: Sourcmtree



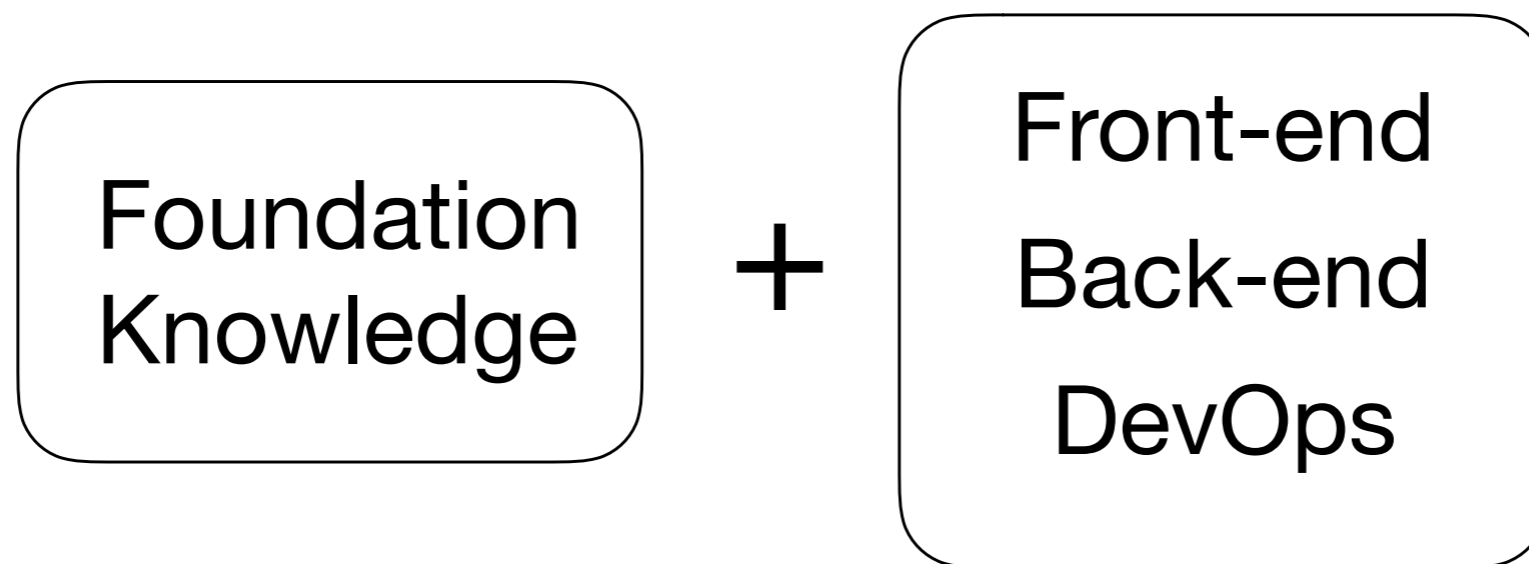
Install and Configure
Sourcetree

Lab-12c Todolist-3



Rebuild Todolist - this time
committing to git version
control as the app is
composed.

A roadmap to becoming a web developer in 2017



Foundation Knowledge

Git - Version Control

SSH

HTTP/HTTPS and APIs

Basic Terminal Usage

Learn to Research

Data Structures & Algorithms

Character Encodings

Design Patterns

GitHub

Create a profile. Explore relevant open source projects. Make a habit of looking under the hood of projects you like. Create and contribute to open source projects.

Front-end

Basics

CSS Frameworks & Processors

JS Client Frameworks + Tools

CSS Mastery, Graphics & Visualisation

Front-end: Basics

Front-end

Learn the Basics

1 Learn HTML

2 Basics of CSS

3 Basics of JavaScript

Learn the basics and how to write semantic HTML

Dividing page into sections and how to structure the DOM properly

Make at least 5 HTML pages – focus on structure

Don't worry about making them pretty yet

Learn the syntax and basic constructs

Learn how to manipulate DOM

Understand the concepts such as hoisting, event bubbling, prototype etc

Learn Ajax (XHR)

Learn ES6+ new features and writing modular JavaScript

Learn the basics of CSS

Learn how to use Grid and Flexbox

Media Queries and Responsive Websites

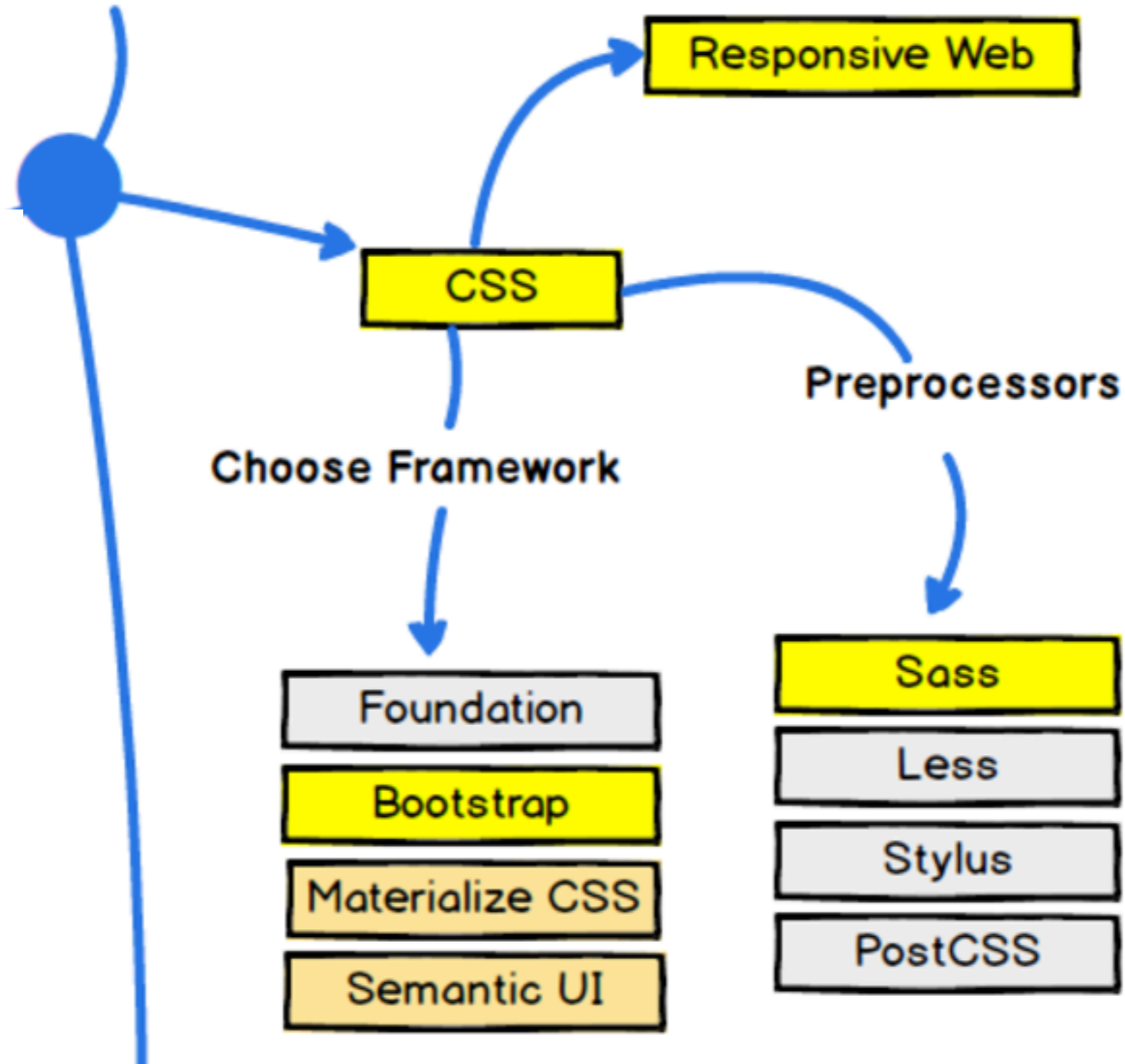
Style the HTML Pages that you made in last step

jQuery – Optional

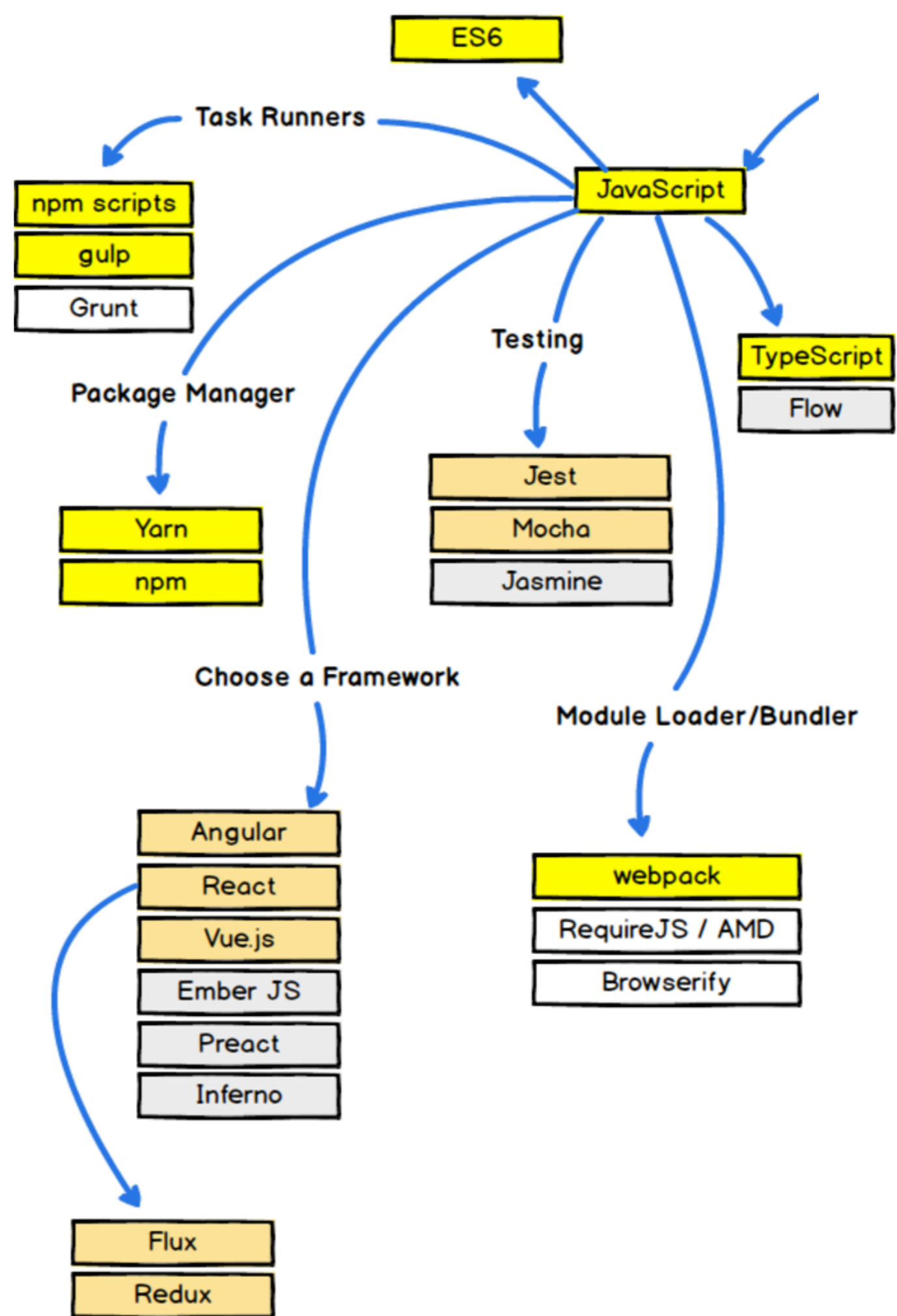


Front-end: CSS Frameworks & Processors

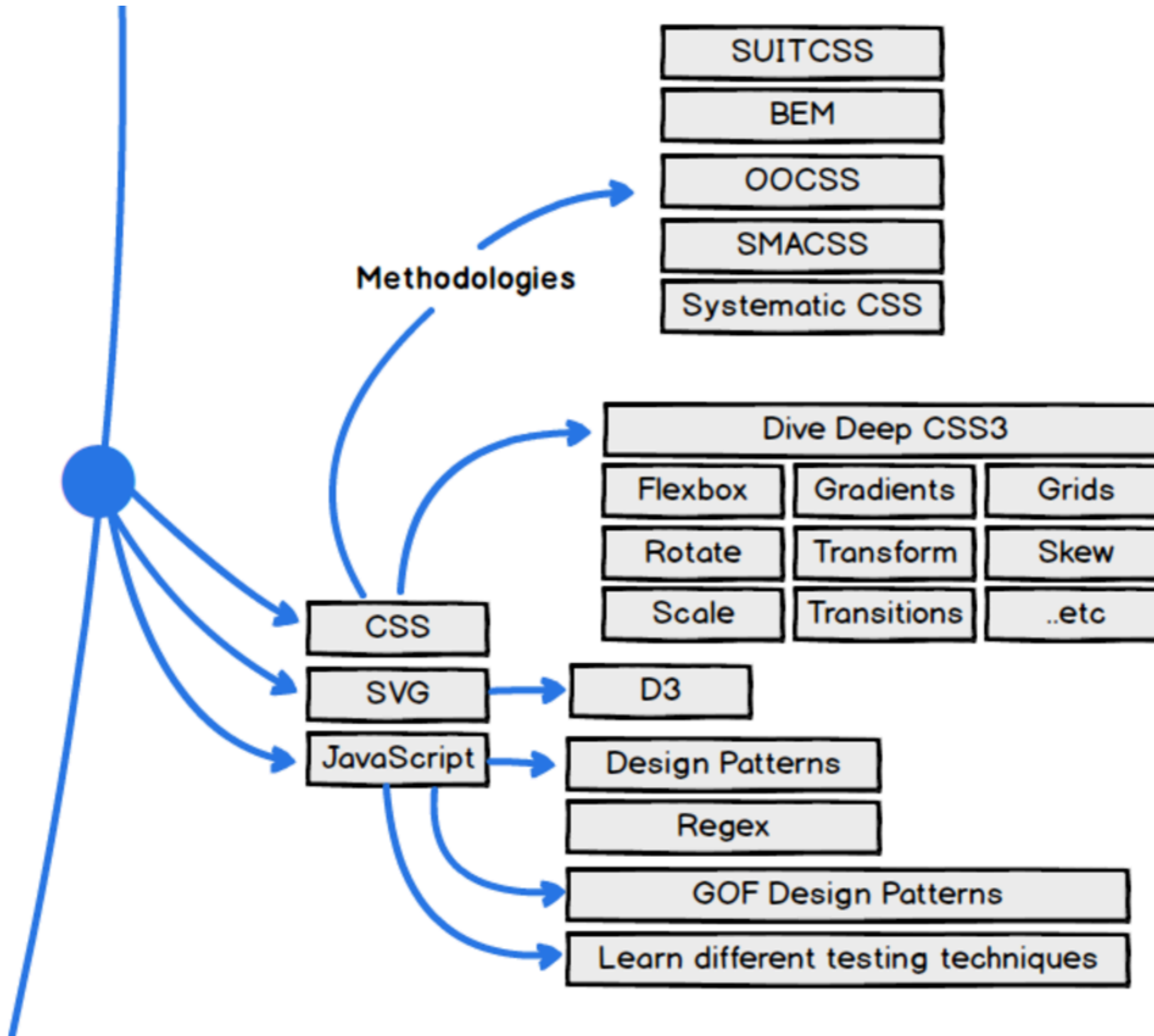
Getting Deeper



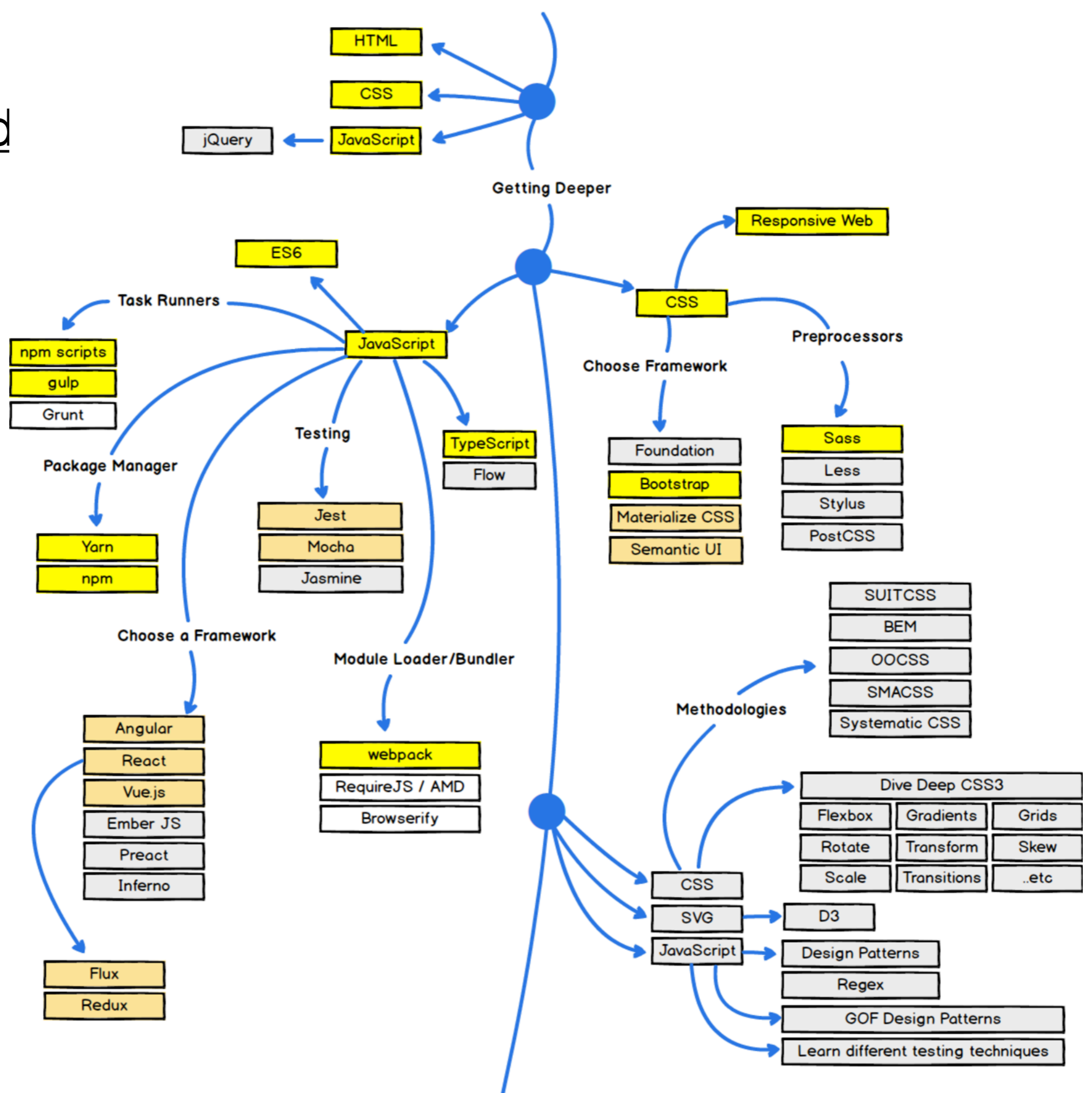
Front-end: JS Client Frameworks, & Tools



Front-end: CSS Mastery, Graphics & Visualisation



Front-end



Back-end

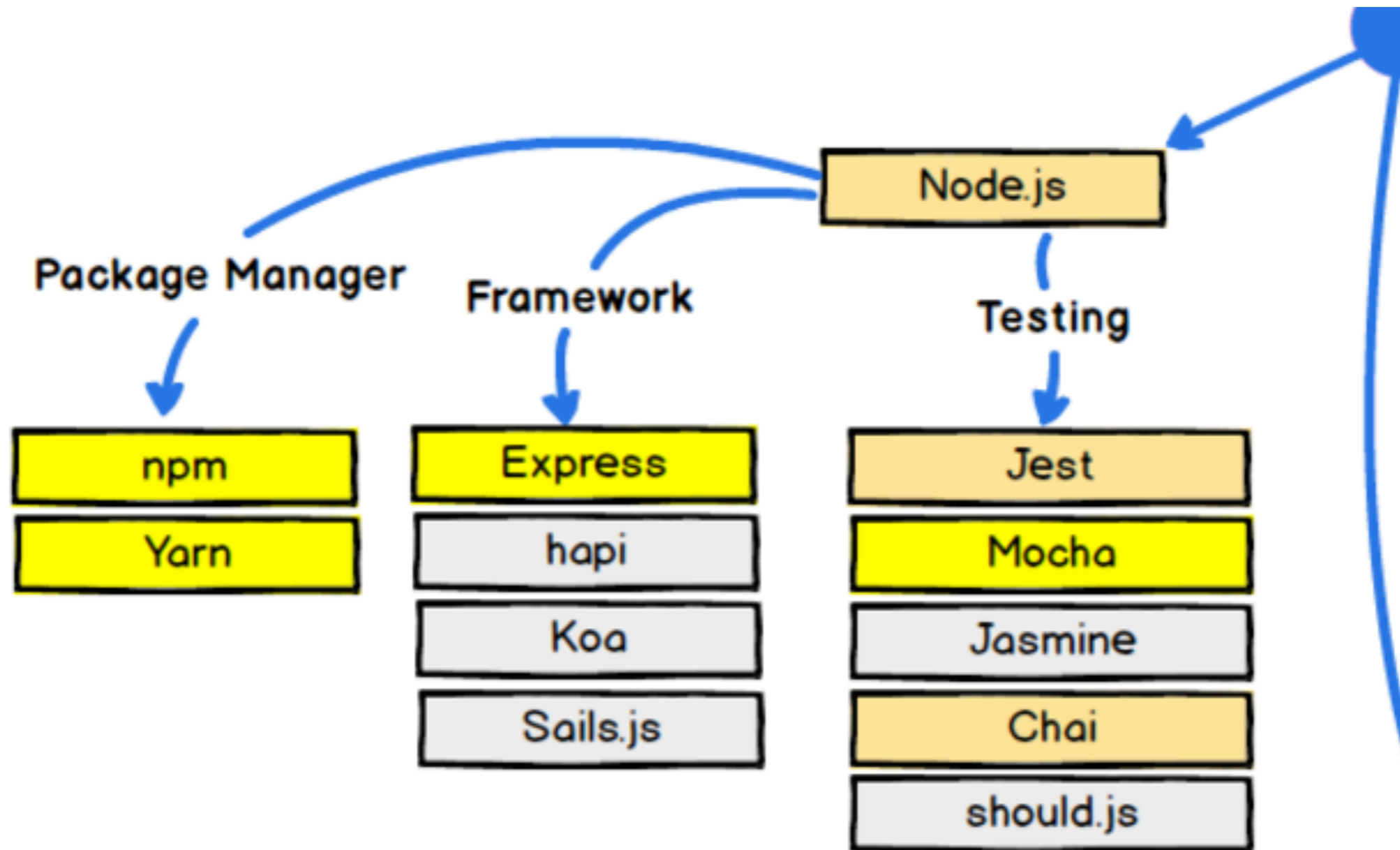
Node.js

Infrastructure + Key Techniques

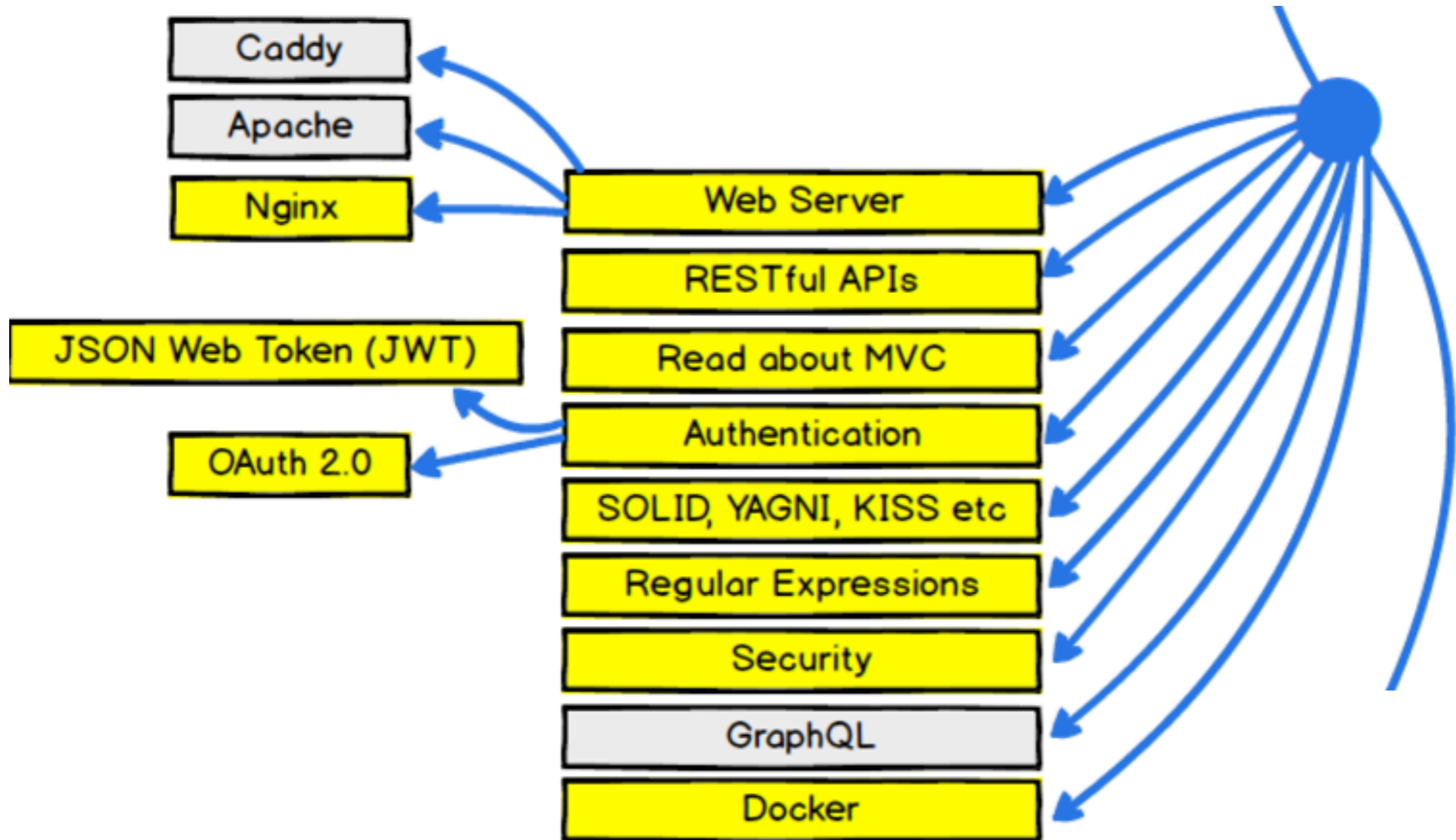
Database

Patterns

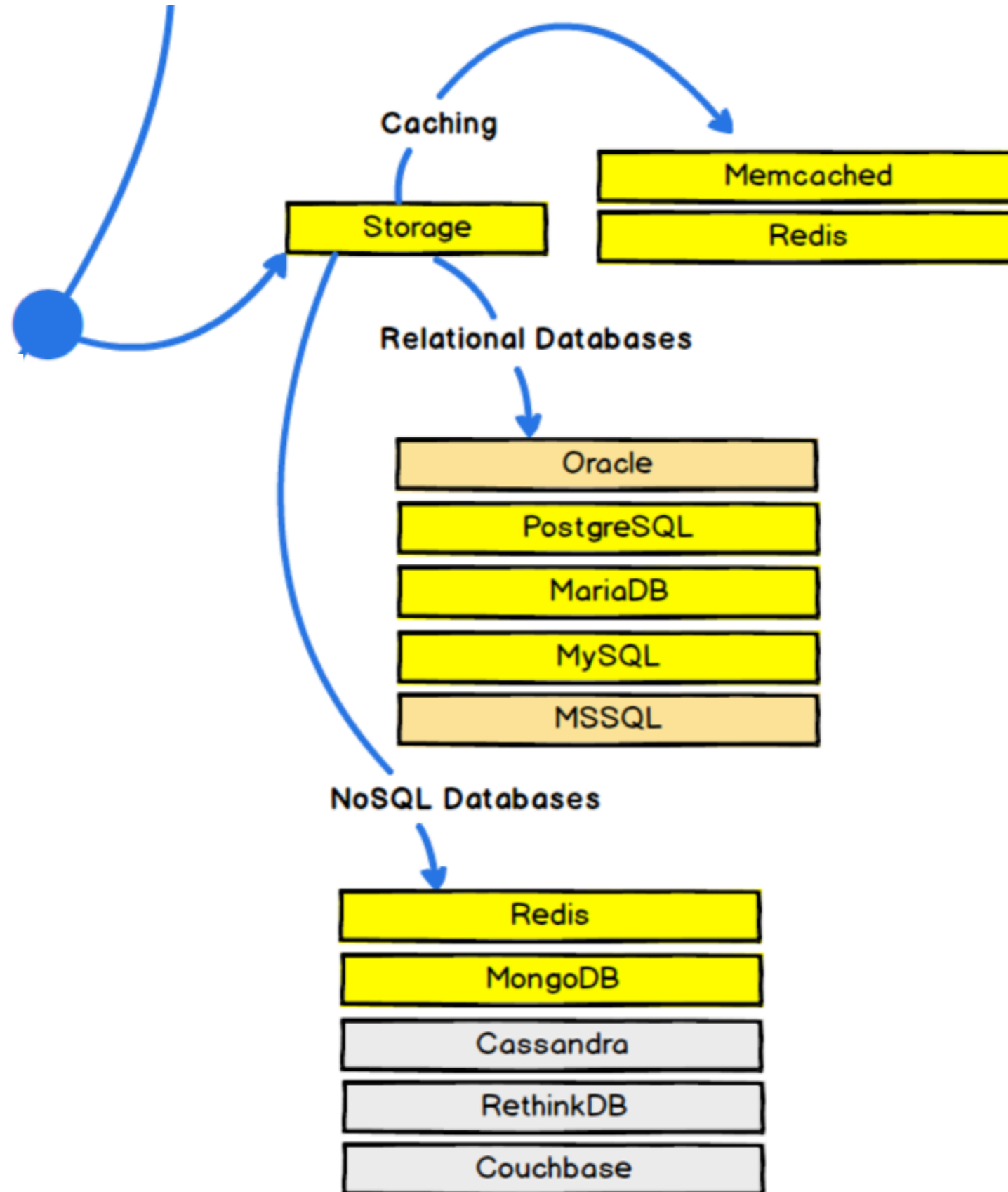
Back-end: Node



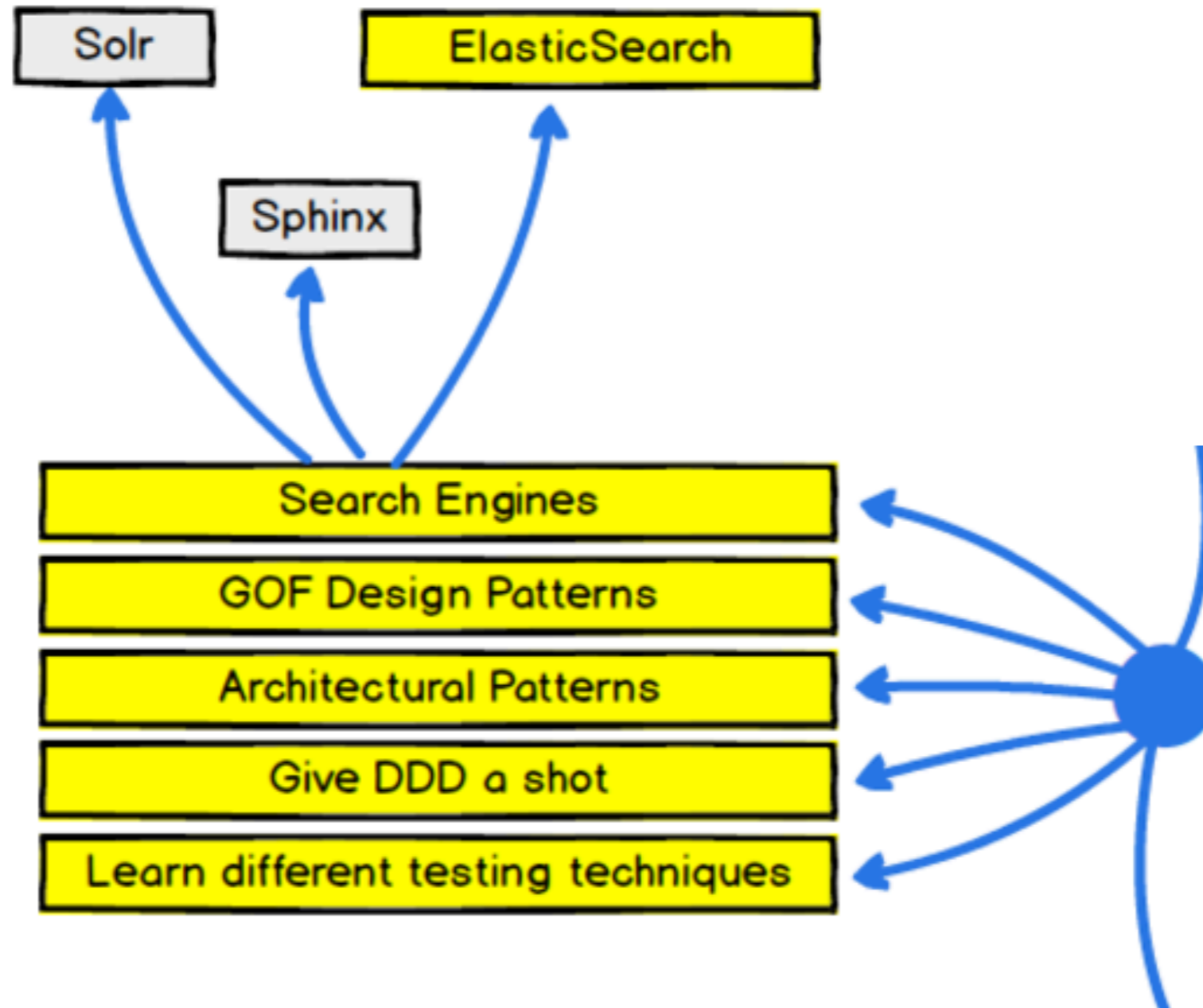
Back-end: Infrastructure + Key Techniques



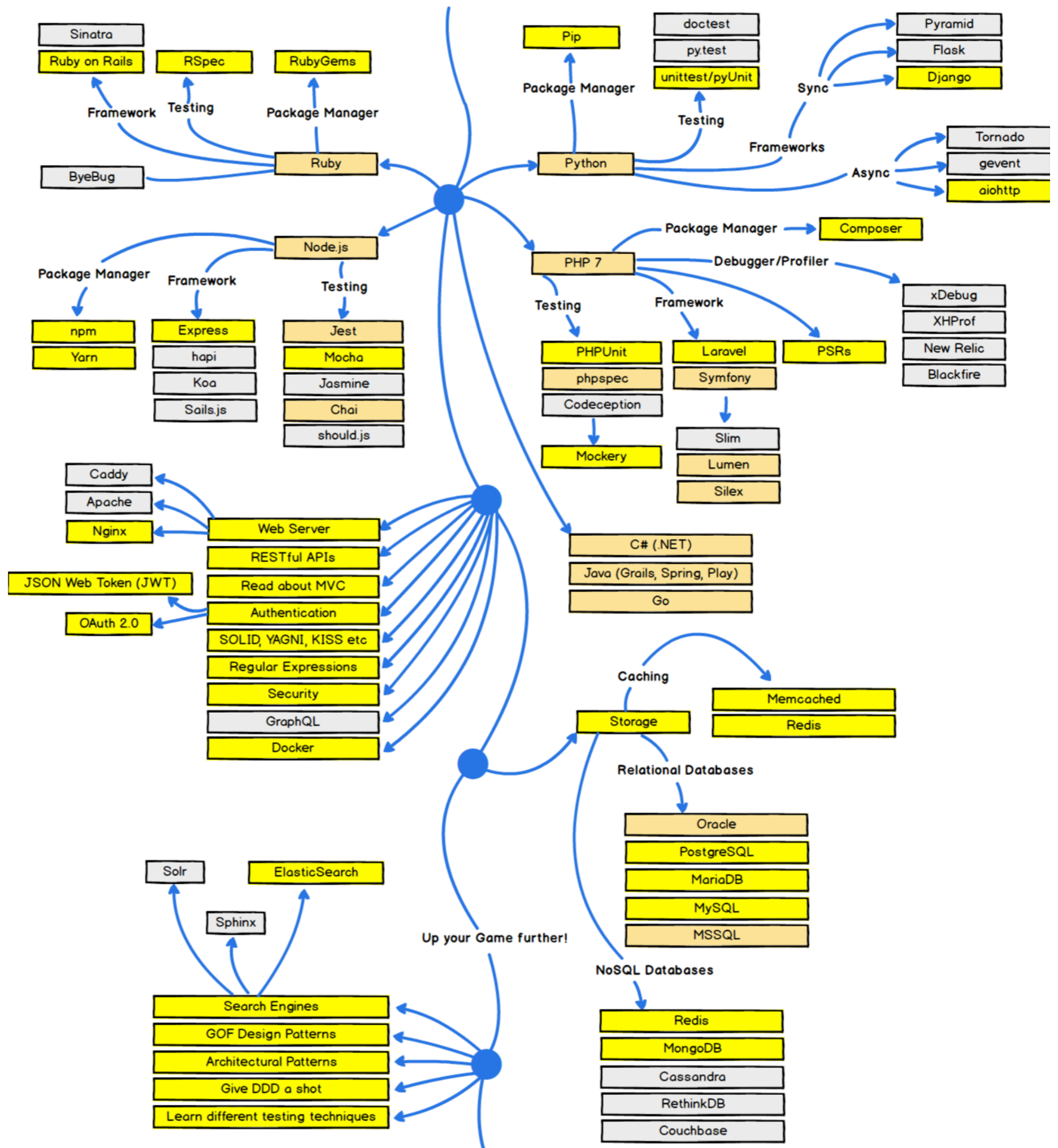
Back-end: Database



Back End: Patterns



Back End:



DevOps

