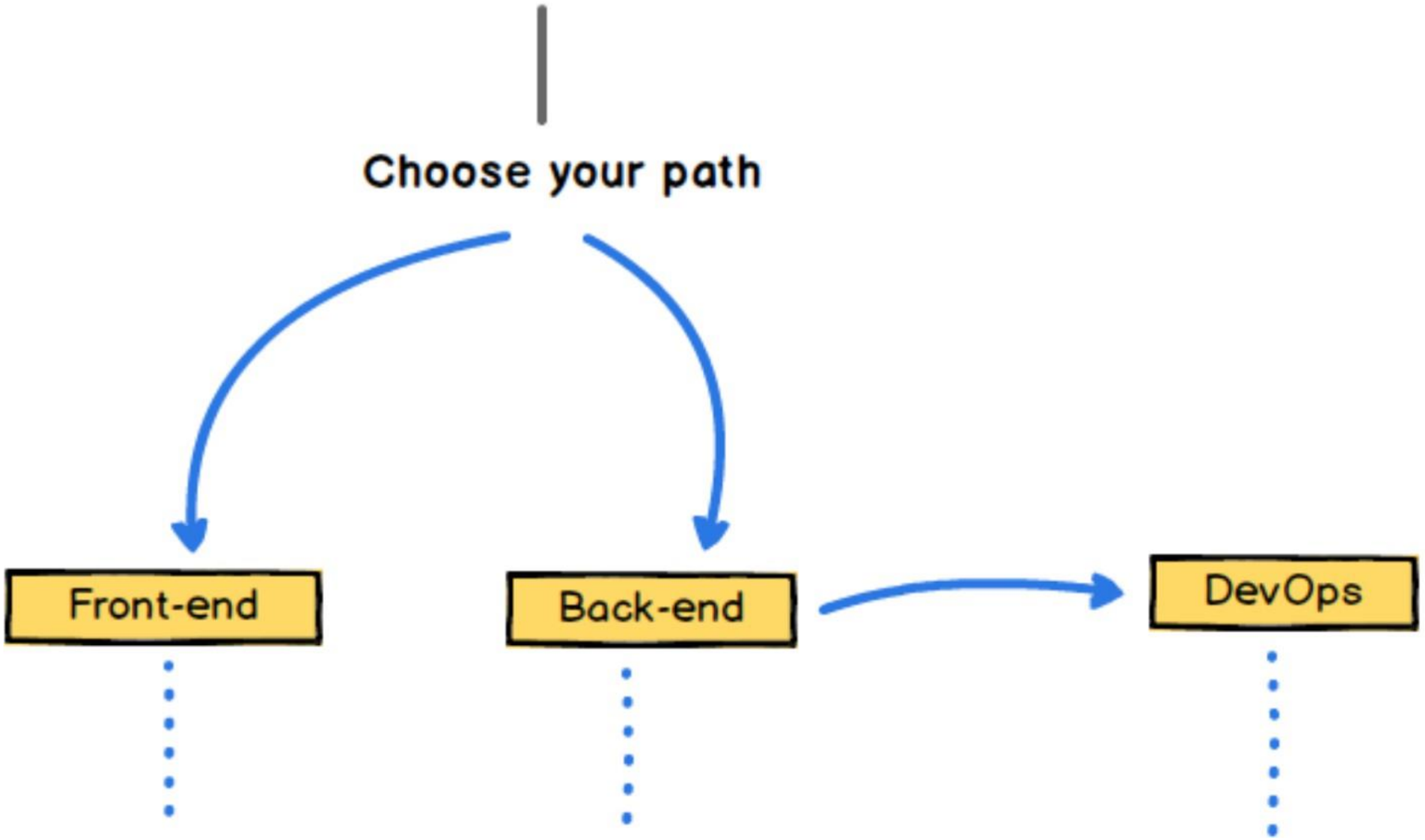
ModernDeveloper-RoadMap

By Bhavya Tamboli

Web Developer in 2018



Front-end+Back-end+DevOps == FullStack

A roadmap to becoming a web developer in 2017

Foundation Knowledge

+

Front-end

Back-end

DevOps

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

FoundationKnowledge

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

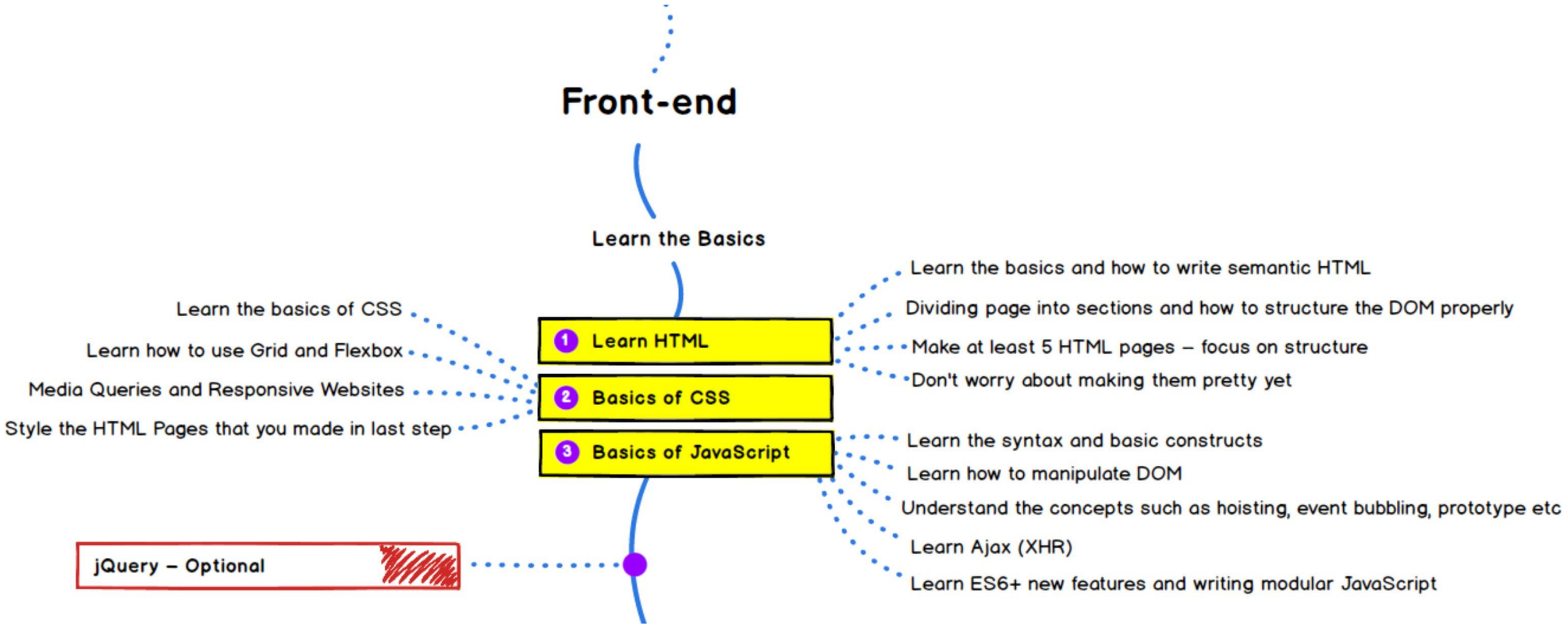
Basics

CSSFrameworks&Processors JS

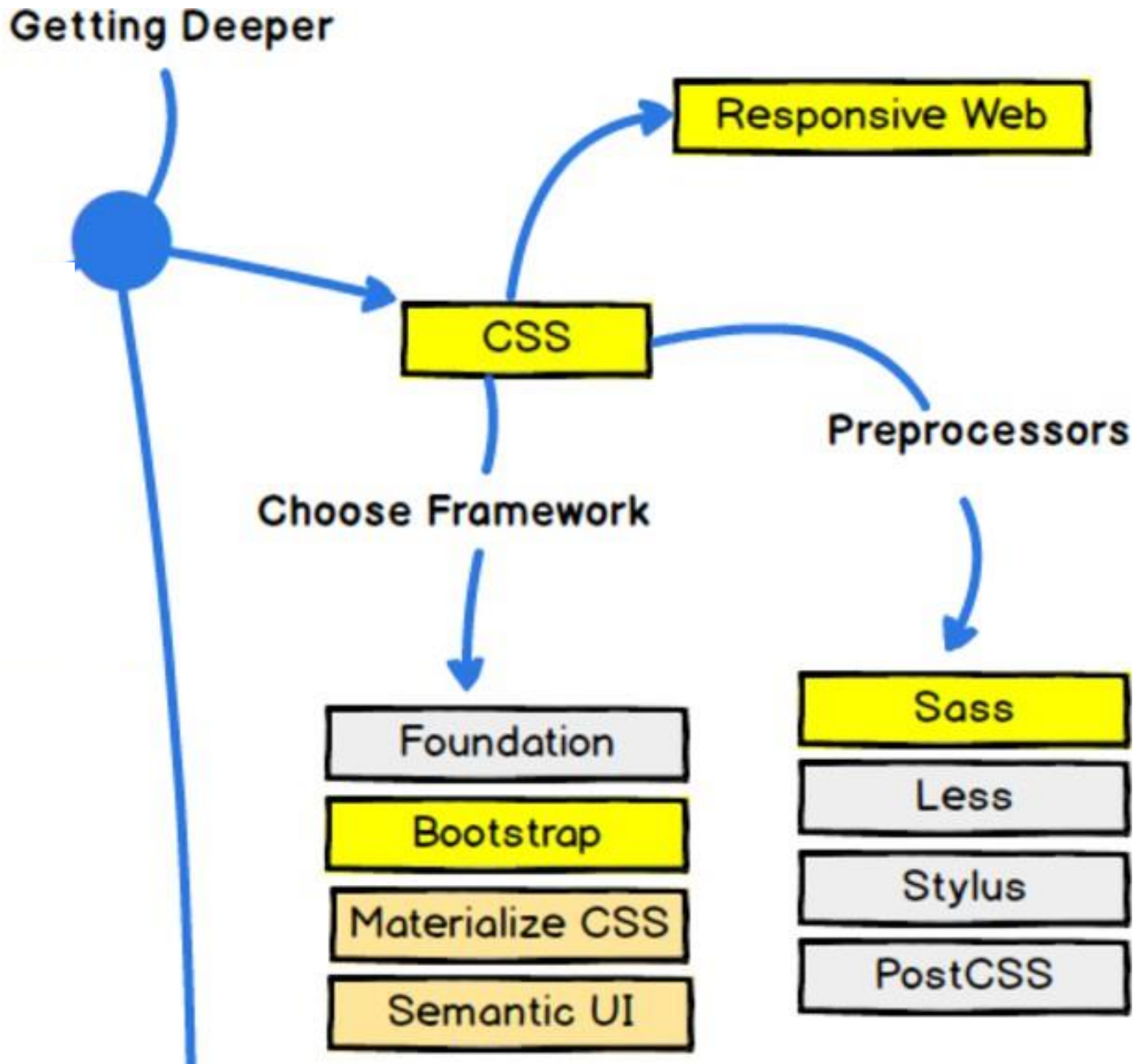
Client Frameworks + Tools

CSSMastery,Graphics&Visualisation

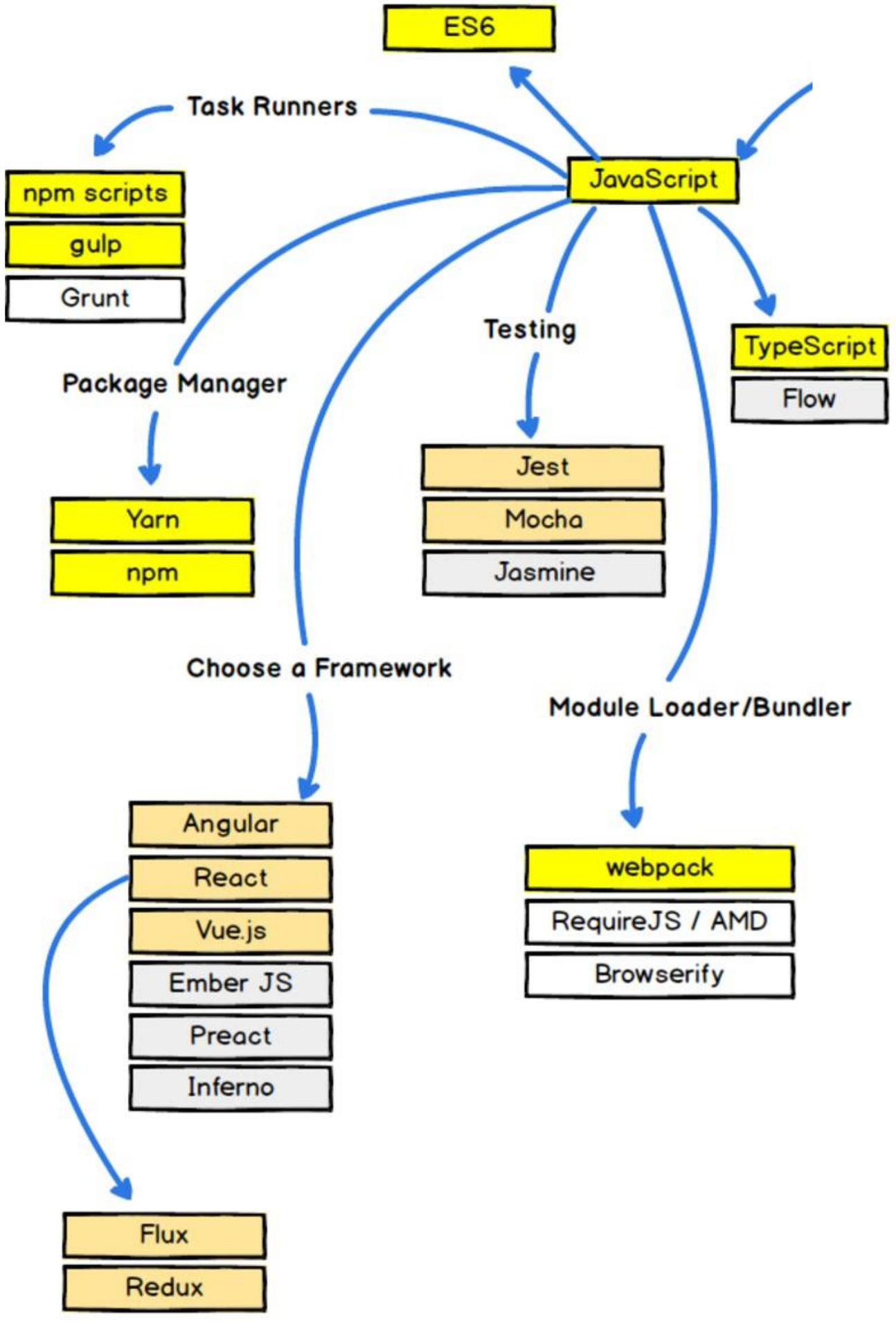
Front-end:Basics



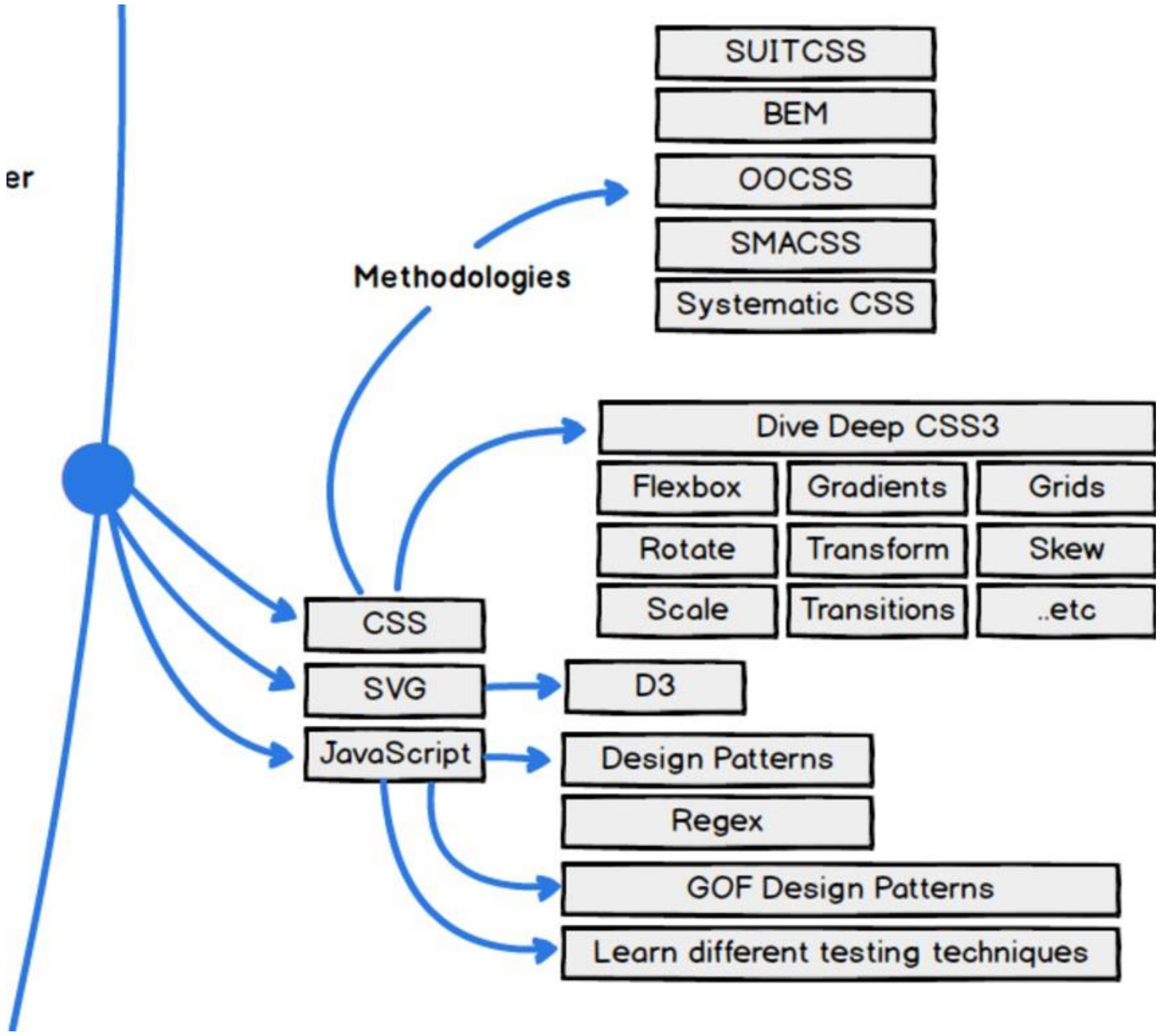
Front-end:CSSFrameworks&Processors



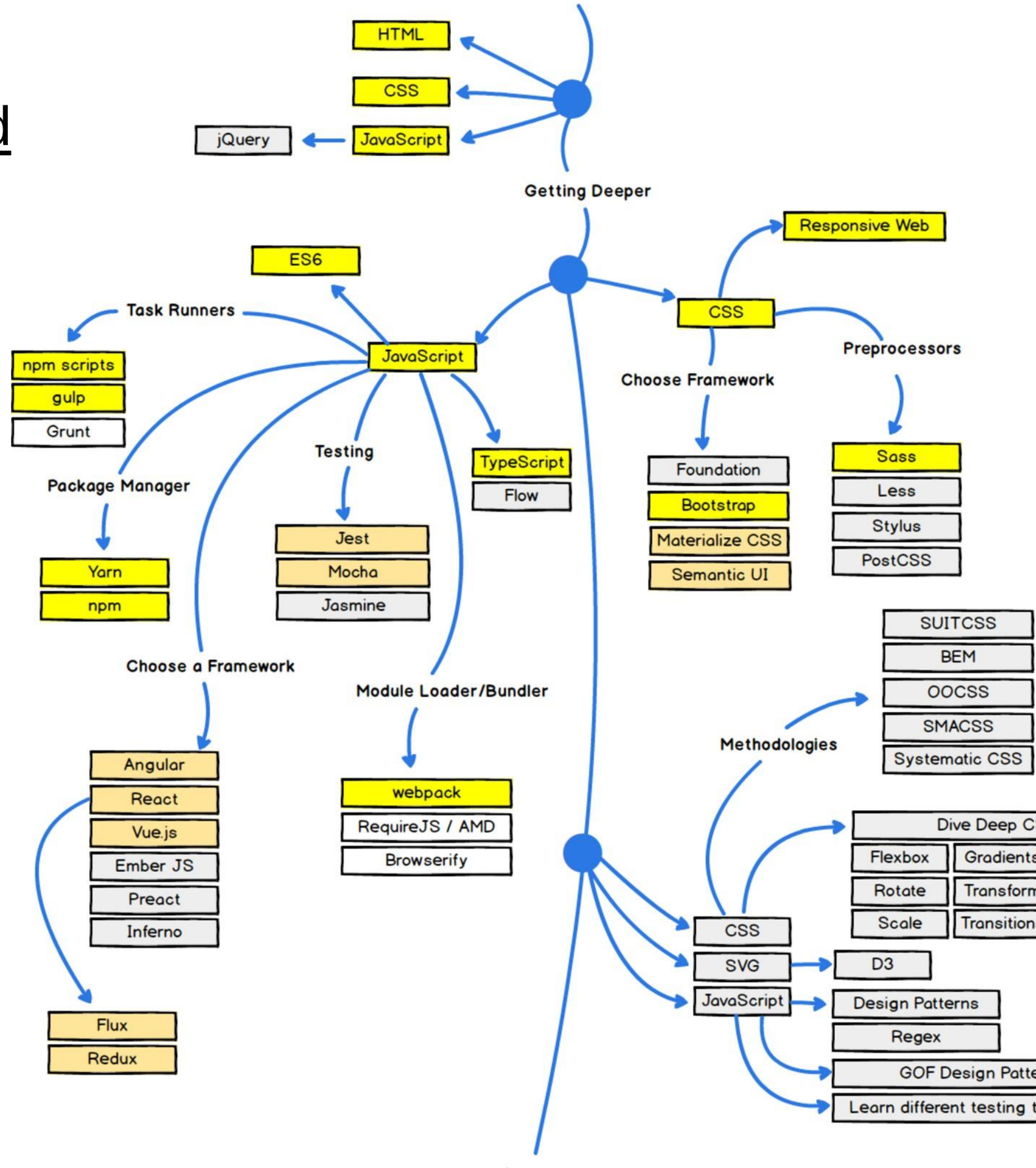
Front-end: JS ClientFrameworks, &Tools



Front-end:CSSMastery,Graphics&Visualisation



Front-end


HTML
CSS
JavaScript
jQuery
Getting Deeper
ES6
Task Runners
npm scripts
gulp
Grunt
JavaScript
Package Manager
Yarn
npm
Testing
Jest
Mocha
Jasmine
TypeScript
Flow
Choose a Framework
Angular
React
Vue.js
Ember JS
Preact
Inferno
Flux
Redux
Module Loader/Bundler
webpack
RequireJS / AMD
Browserify
CSS
Responsive Web
Preprocessors
Choose Framework
Foundation
Bootstrap
Materialize CSS
Semantic UI
Sass
Less
Stylus
PostCSS
Methodologies
SUITCSS
BEM
OOCSS
SMACSS
Systematic CSS
CSS
Dive Deep CSS3
Flexbox
Gradients
Grids
Rotate
Transform
Skew
Scale
Transitions
..etc
SVG
D3
JavaScript
Design Patterns
Regex
GOF Design Patterns
Learn different testing techniques

Back-end

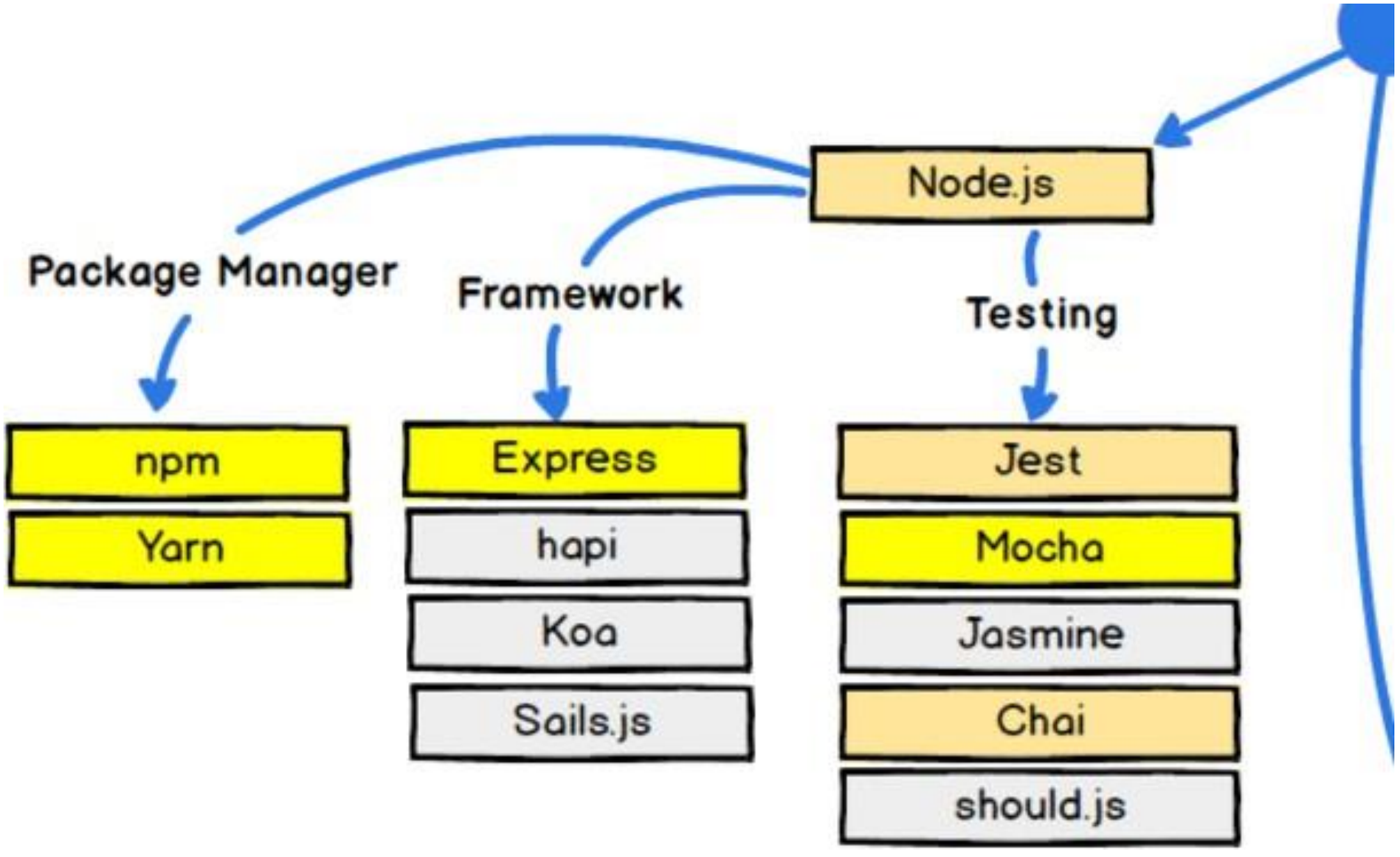
Node.js

Infrastructure+KeyTechniques

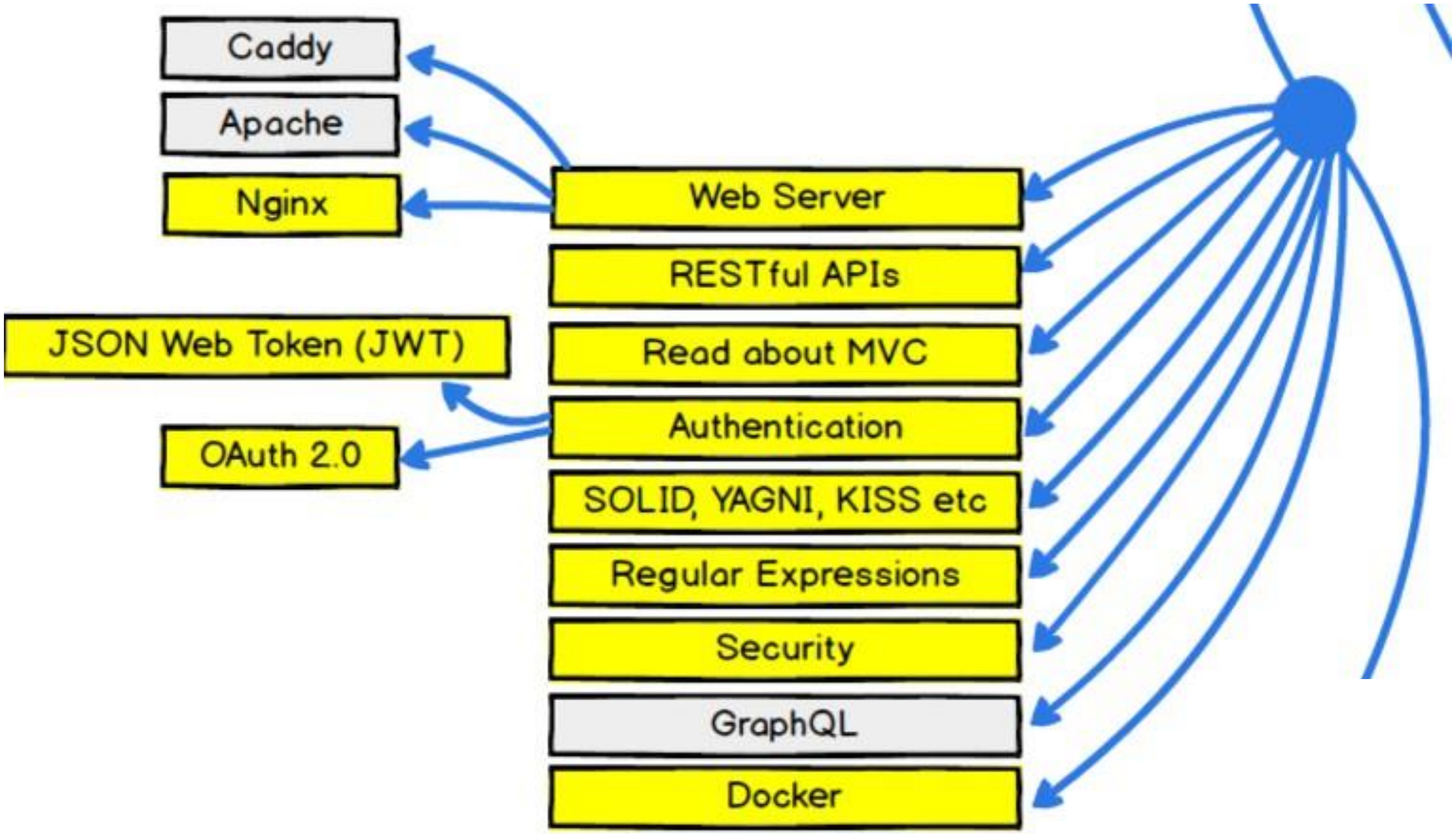
Database

Patterns

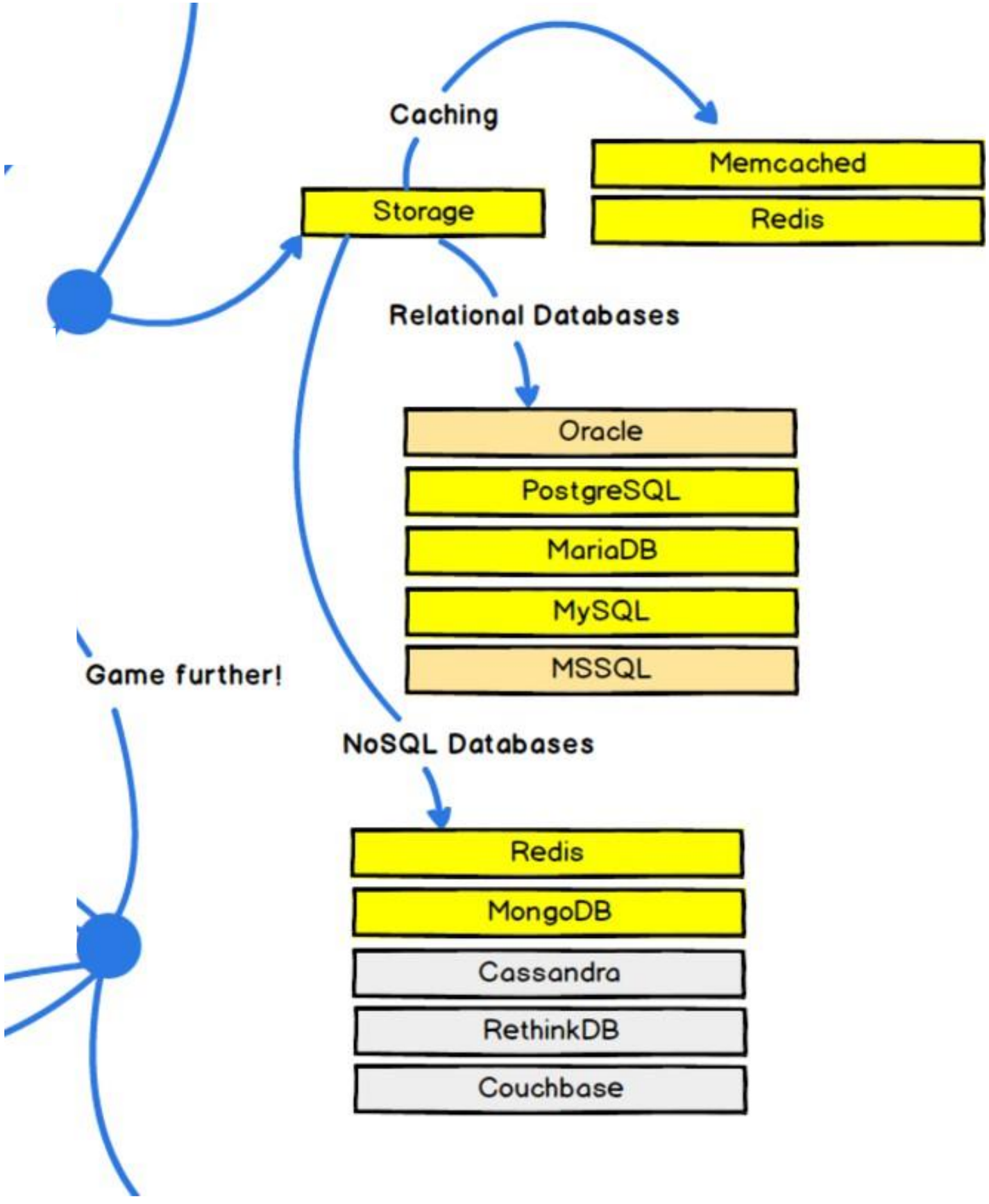
Back-end:Node



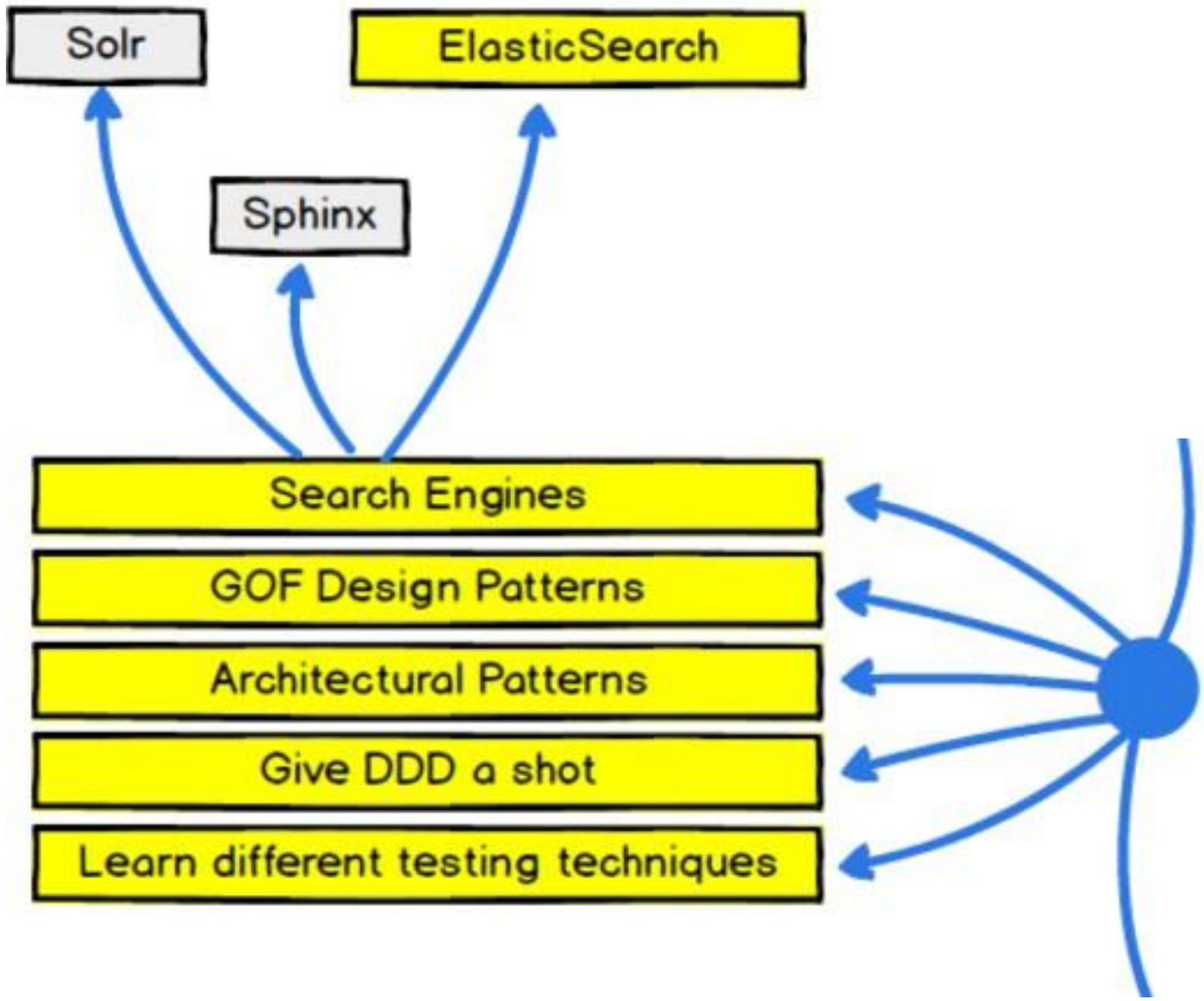
Back-end:Infrastructure+KeyTechniques



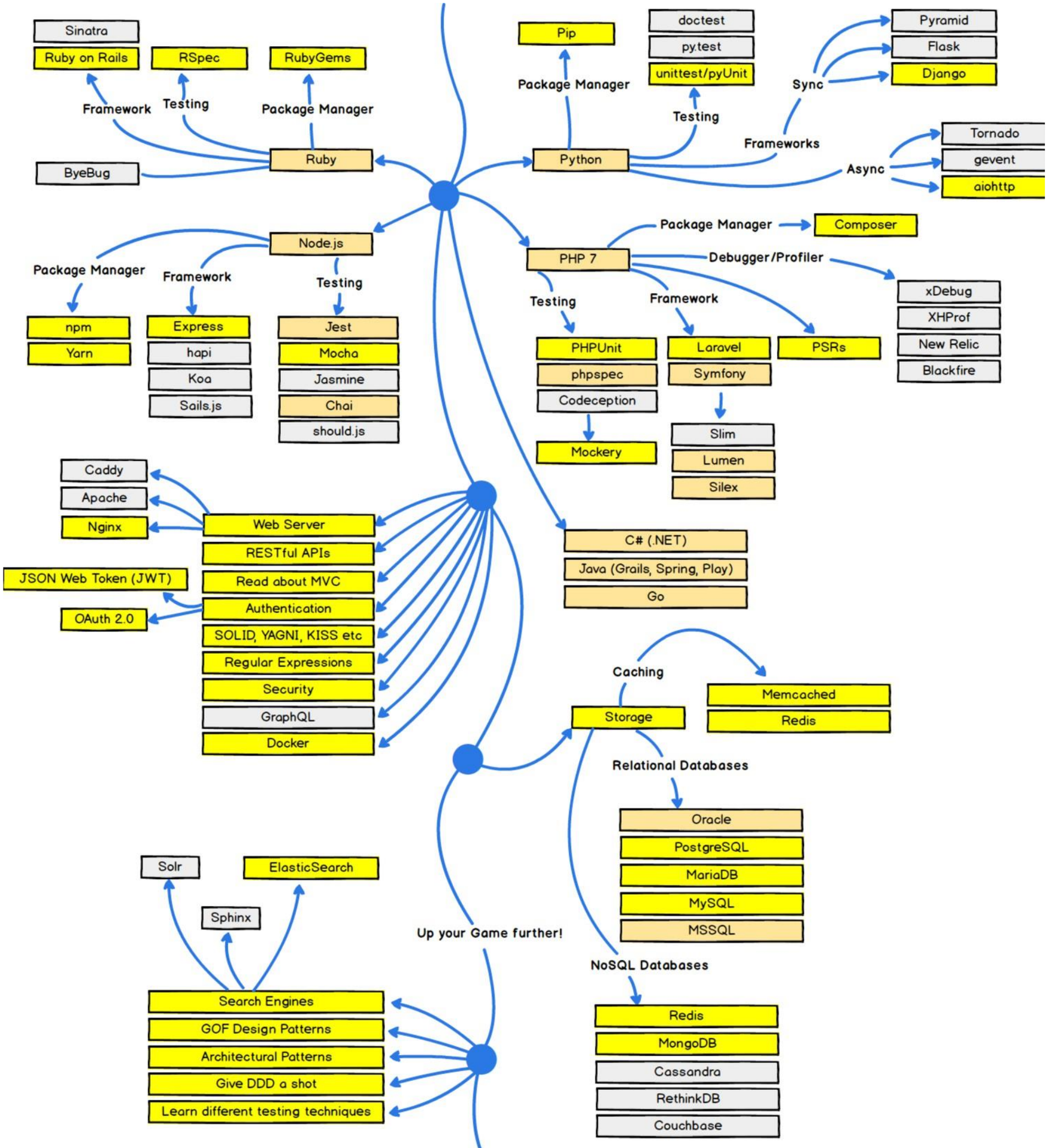
Back-end:Database



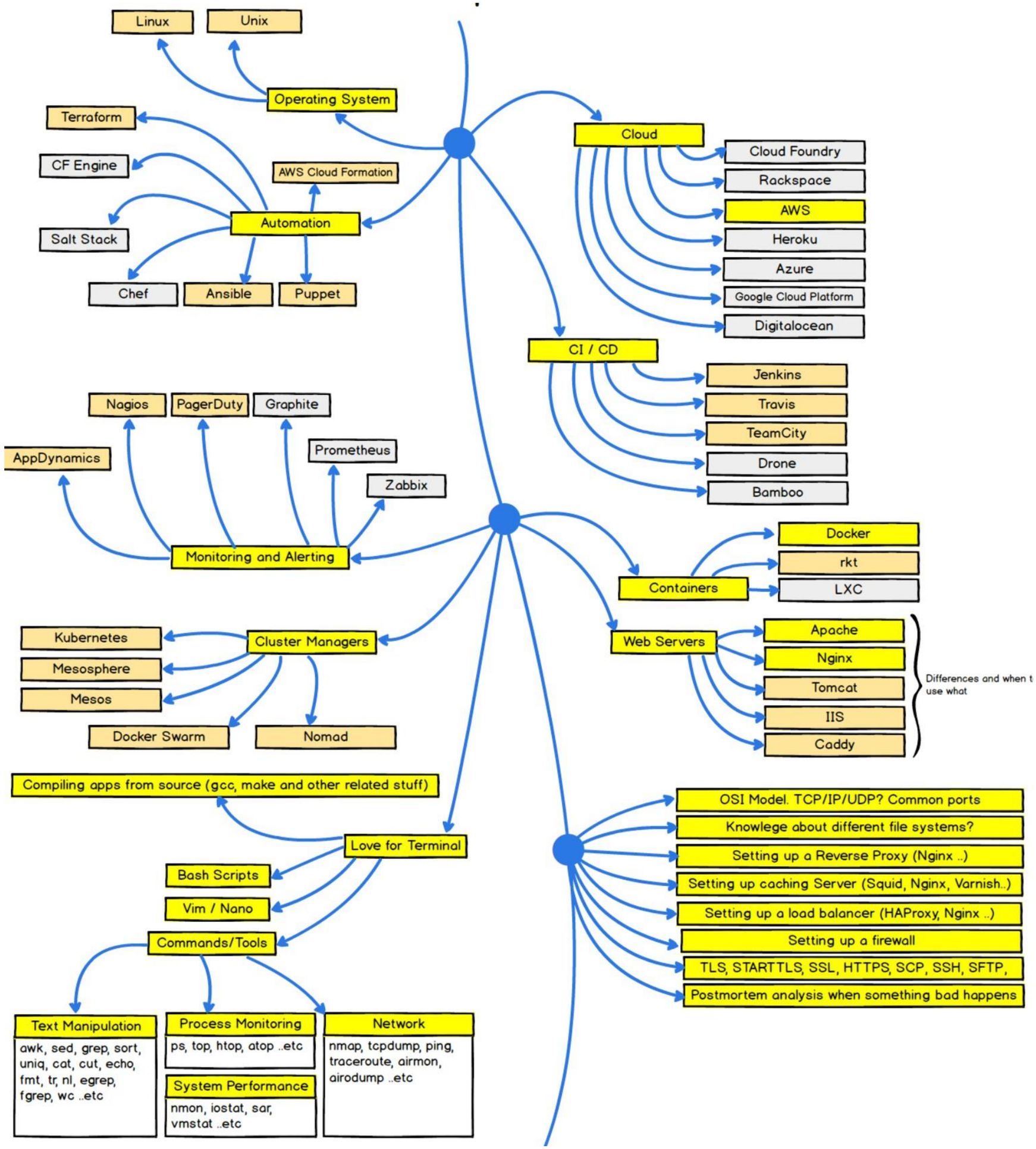
BackEnd:Patterns



BackEnd:


Sinatra
Ruby on Rails
RSpec
RubyGems
Framework
Testing
Package Manager
Ruby
ByeBug
Pip
doctest
py.test
unittest/pyUnit
Package Manager
Testing
Sync
Pyramid
Flask
Django
Frameworks
Python
Async
Tornado
gevent
aiohttp
Node.js
Package Manager
Framework
Testing
npm
Yarn
Express
hapi
Koa
Sails.js
Jest
Mocha
Jasmine
Chai
should.js
Package Manager
Composer
PHP 7
Debugger/Profiler
Testing
Framework
PHPUnit
phpspec
Codeception
Mockery
Laravel
Symfony
Slim
Lumen
Silex
PSRs
xDebug
XHProf
New Relic
Blackfire
Caddy
Apache
Nginx
Web Server
RESTful APIs
JSON Web Token (JWT)
Read about MVC
OAuth 2.0
Authentication
SOLID, YAGNI, KISS etc
Regular Expressions
Security
GraphQL
Docker
C# (.NET)
Java (Grails, Spring, Play)
Go
Caching
Storage
Memcached
Redis
Relational Databases
Oracle
PostgreSQL
MariaDB
MySQL
MSSQL
NoSQL Databases
Redis
MongoDB
Cassandra
RethinkDB
Couchbase
Solr
ElasticSearch
Sphinx
Search Engines
GOF Design Patterns
Architectural Patterns
Give DDD a shot
Learn different testing techniques
Up your Game further!

DevOps


Linux
Unix
Operating System
Terraform
CF Engine
AWS Cloud Formation
Automation
Salt Stack
Chef
Ansible
Puppet
Cloud
Cloud Foundry
Rackspace
AWS
Heroku
Azure
Google Cloud Platform
Digitalocean
CI / CD
Jenkins
Travis
TeamCity
Drone
Bamboo
Nagios
PagerDuty
Graphite
AppDynamics
Prometheus
Zabbix
Monitoring and Alerting
Docker
rkt
LXC
Containers
Kubernetes
Mesosphere
Mesos
Cluster Managers
Docker Swarm
Nomad
Web Servers
Apache
Nginx
Tomcat
IIS
Caddy
Differences and when t
use what
Compiling apps from source (gcc, make and other related stuff)
Love for Terminal
Bash Scripts
Vim / Nano
Commands/Tools
Text Manipulation
awk, sed, grep, sort, uniq, cat, cut, echo, fmt, tr, nl, egrep, fgrep, wc ..etc
Process Monitoring
ps, top, htop, atop ..etc
System Performance
nmon, iostat, sar, vmstat ..etc
Network
nmap, tcpdump, ping, traceroute, airmon, airodump ..etc
OSI Model. TCP/IP/UDP? Common ports
Knowlege about different file systems?
Setting up a Reverse Proxy (Nginx ..)
Setting up caching Server (Squid, Nginx, Varnish..)
Setting up a load balancer (HAProxy, Nginx ..)
Setting up a firewall
TLS, STARTTLS, SSL, HTTPS, SCP, SSH, SFTP,
Postmortem analysis when something bad happens