Basic Building Blocks of Web ~~Development~~ Application

→ Programming Languages
→ IP Address
  — IPv4 ⎫ difference   — class A,B,C,D,E
  — IPv6 ⎭

IP4
- class A → 0-127 (0.0.0.0 – 127.255.255.255)   local
              127 is preserved for local system (10-10.255)
  class B → 128 –191 → internet
  class C → 192 – 223 → (192.168 Local network)
  class D → 224 – 239 → Not used / reserved
  class E → 240 – 255 → Not used.

Port 65535
- 0-1023 (reserved ports used by system)
  1024-49150 (Application port) (3000-9999)
  49151-65535 (Open port)

Web Port : 80 & 443 (HTTP) & (HTTPS) ←— servers
                    Normal web   Secure web

→ Browsers
- Compatibility

Web server : Nginx, Apache 2,0 , Light http

HTTP Verbs : GET, POST, PUT, DELETE, OPTION, HEAD
                ↓   ↓   ↓
              Fetch   Send   queries

→ HTTP Headers:

→ HTTP Ports:
100 - 100, 101, 102 — Informational
200 - 201, 200, 202, 204 — Success of request
300 - 301, 302 — Migration, Redirection
400 - 401, 402, 404 — User Authentication, Client Error
500 - 501, 502 — problem at server side, Server Error

~~Open Source~~

→ Software License
Apache 2.0
MIT
BSD
GPL
Mozilla

Node.js MIT

→ Database - Relational DB & Non Relational DB
    MySQL   MangoDB
    PosgresSQL   Redis
    MariaDB   Cassandra
                NeoJs

→ Cloud Providers: (IAAS, PAAS)
AWS, Google Cloud, Azure, ~~Microsoft~~ BlueMix,
Digital Ocean, Vultr, Linode

Heroku, Netlify → PAAS

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→ Code Repo
  - Github
  - Gitlab (open Source)
  - Bitbucket

→ JIRA - Project Management Tool (Task, Stories)
Google sheet/DOC/Trello/Asana

→ Git Dev Workflow
  - feature branch
  - develop branch
  - Stage branch
  - master branch (Deployed to production)

→ Infrastructure Dev
  - Dev (Development)
  - UAT/Staging
  - Production system