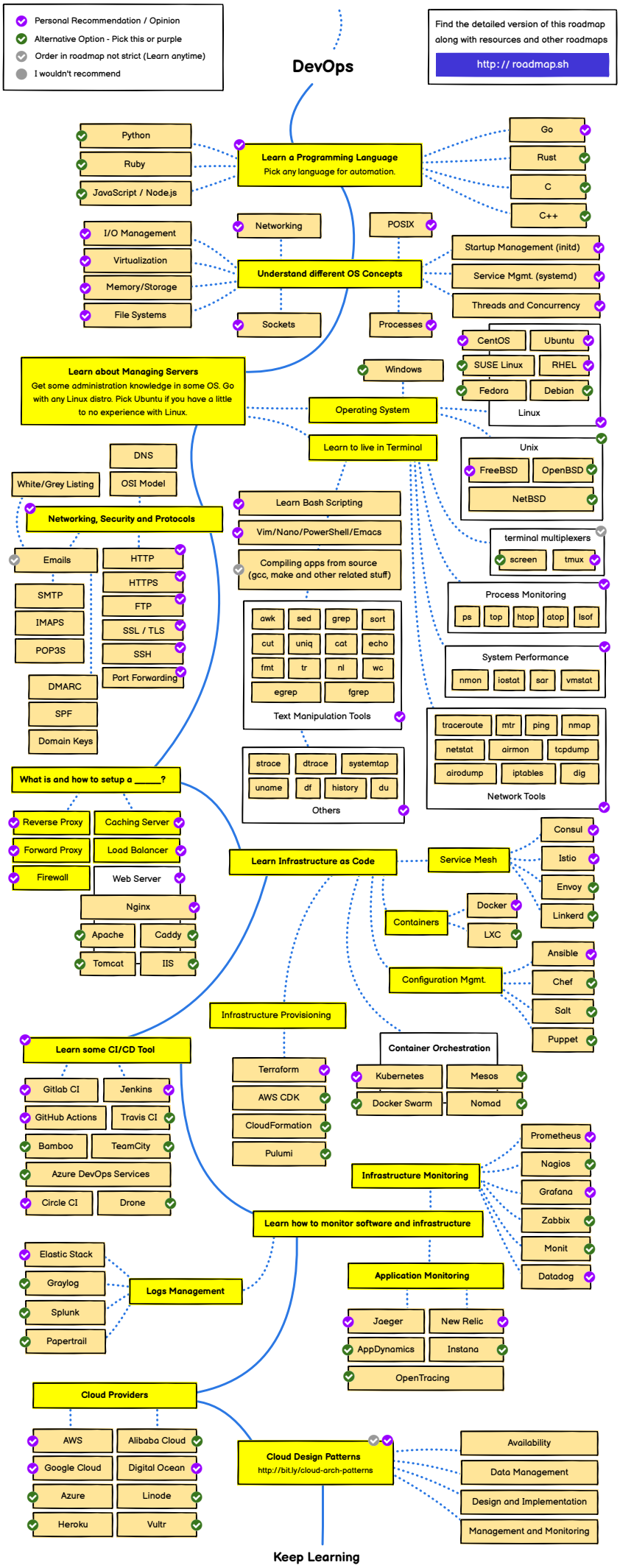
Personal Recommendation / Opinion
Alternative Option - Pick this or purple
Order in roadmap not strict (Learn anytime)
I wouldn't recommend
DevOps
Find the detailed version of this roadmap along with resources and other roadmaps
http:// roadmap.sh
Learn a Programming Language
Pick any language for automation.
Python
Ruby
JavaScript / Node.js
Go
Rust
C
C++
Understand different OS Concepts
I/O Management
Virtualization
Memory/Storage
File Systems
Networking
Sockets
POSIX
Processes
Startup Management (initd)
Service Mgmt. (systemd)
Threads and Concurrency
Learn about Managing Servers
Get some administration knowledge in some OS. Go with any Linux distro. Pick Ubuntu if you have a little to no experience with Linux.
Windows
Operating System
CentOS
Ubuntu
SUSE Linux
RHEL
Fedora
Debian
Linux
Unix
FreeBSD
OpenBSD
NetBSD
Learn to live in Terminal
Learn Bash Scripting
Vim/Nano/PowerShell/Emacs
Compiling apps from source (gcc, make and other related stuff)
terminal multiplexers
screen
tmux
Process Monitoring
ps
top
htop
atop
lsof
System Performance
nmon
iostat
sar
vmstat
awk
sed
grep
sort
cut
uniq
cat
echo
fmt
tr
nl
wc
egrep
fgrep
Text Manipulation Tools
strace
dtrace
systemtap
uname
df
history
du
Others
traceroute
mtr
ping
nmap
netstat
airmon
tcpdump
airodump
iptables
dig
Network Tools
DNS
White/Grey Listing
OSI Model
Networking, Security and Protocols
Emails
HTTP
HTTPS
FTP
SSL / TLS
SSH
Port Forwarding
SMTP
IMAPS
POP3S
DMARC
SPF
Domain Keys
What is and how to setup a _____?
Reverse Proxy
Caching Server
Forward Proxy
Load Balancer
Firewall
Web Server
Nginx
Apache
Caddy
Tomcat
IIS
Learn Infrastructure as Code
Service Mesh
Consul
Istio
Envoy
Linkerd
Containers
Docker
LXC
Configuration Mgmt.
Ansible
Chef
Salt
Puppet
Infrastructure Provisioning
Terraform
AWS CDK
CloudFormation
Pulumi
Container Orchestration
Kubernetes
Mesos
Docker Swarm
Nomad
Learn some CI/CD Tool
Gitlab CI
Jenkins
GitHub Actions
Travis CI
Bamboo
TeamCity
Azure DevOps Services
Circle CI
Drone
Learn how to monitor software and infrastructure
Infrastructure Monitoring
Prometheus
Nagios
Grafana
Zabbix
Monit
Datadog
Application Monitoring
Jaeger
New Relic
AppDynamics
Instana
OpenTracing
Logs Management
Elastic Stack
Graylog
Splunk
Papertrail
Cloud Providers
AWS
Alibaba Cloud
Google Cloud
Digital Ocean
Azure
Linode
Heroku
Vultr
Cloud Design Patterns
http://bit.ly/cloud-arch-patterns
Availability
Data Management
Design and Implementation
Management and Monitoring
Keep Learning