



Open Source

A Basic Guide to Vetting Dependencies

What we'll Cover

Coverage Today: *Javascript & Typescript*

- Open Source Brief
- When to Explore
- Processes & Systems
- Final Thoughts



Open Source

What is it?

Open source describes software where the source code is available for anyone to view, use, change, and then share.

Making source code publicly available allows others to build on and learn from it, enabling broad collaboration from people around the world.

Open Source

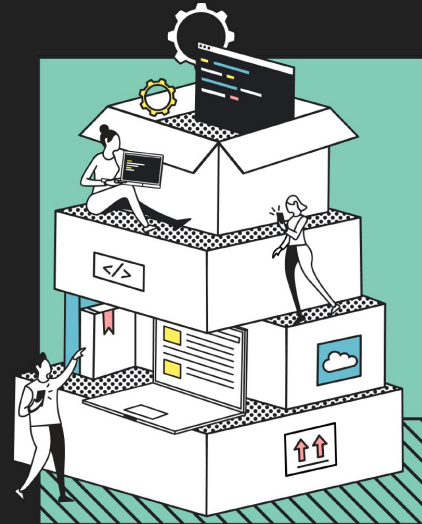
Where can I find it?

It's in your phone, your car, your TV, and your wifi-connected light bulbs.

Open source components enable engineers to build on the work of a global community of developers to deliver better products faster and at lower cost.

Linux, the Apache web server, Android, Firefox, and WordPress are examples of open source projects you may have heard of.

Flavors of Open Source



Some Basic Flavors

Languages

Package Registries

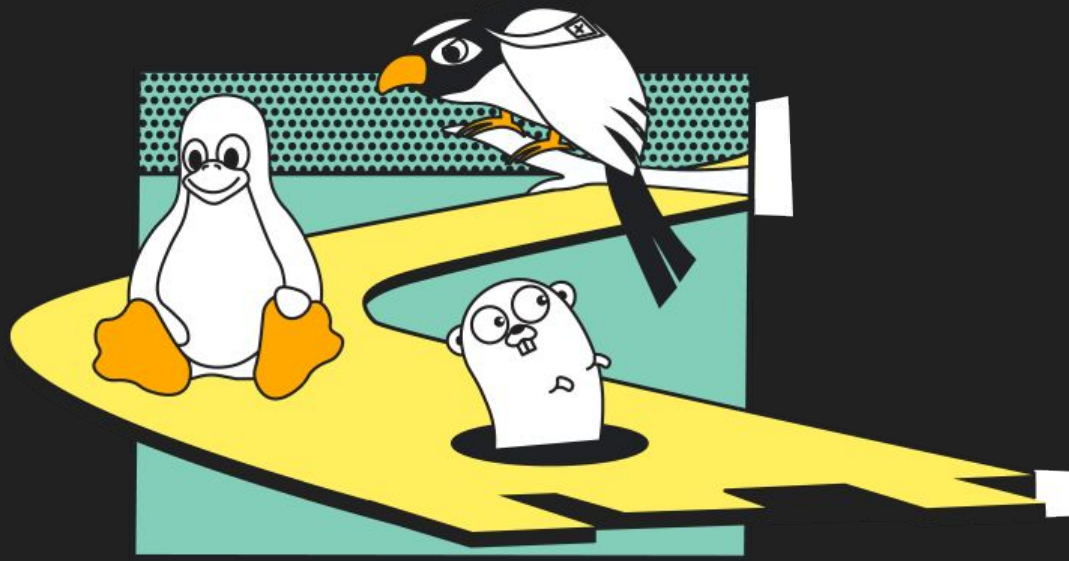
- Libraries
- Components
- UI/UX
- Utilities
- Others

Development tools

Operating Systems

Browsers

So much more!



When & How to Explore



It all comes down to use case...

Project

Depending on the scope & time constraints, the opportunity cost for exploring may be high.

DevOps CI/CD

In Production

Context

Language

Framework

Completed Work

Team

New open source implementations are difficult with larger teams

Time to implement exponentially increases when adding team members

Quick Example

Project:

- Refactoring a large scale app's frontend from Javascript to Typescript
- Large User Base
- In production
- DevOps Configured

Context:

- React app in Javascript
- Using Create-react-app

Team:

- 5 Engineers
- All Javascript Developers
- No experience with Typescript



**THIS IS NO TIME TO
EXPLORE!**

Another Example

Project:

- Side Project
- Building a gatsby site
- No time constraints

Context:

- No codebase
- Thinking about using Typescript

Team:

- Just you
- You have some Javascript experience



**THIS IS A PERFECT
TIME TO EXPLORE!**

Process & Systems for Vetting

Use Case

Like we did earlier!

Determine your use case and exploration constraints first

Problem or Why?

What's the issue

Client-Side / Frontend:

- UI Library
- Design System

Server-side / Backend

- Utilities
- Networking tools
- Formatters

Pick a Resource

Determine resources based off problem

- Package Registry
- Curated Tools
- Links or Articles
- Github or VC online

Process & Systems for Vetting

Dependency

After picking a resource, check out some basic info on the dependency

- Docs?
- Repo Url?
- Demo?
- Relevant stats like Downloads?
- Site?

Repository

Check out the source for small purpose dependencies

- Stars?
- Docs?
- Issues?
- Commits?
- Maintainers
- Credibility?
- Who's using it?

Implementation

Small Scale First

Use an online IDE or playground to see the project in action

- How long does this take?
- Is this useful?

Example Time

Bad Issues example:

Configuration

<https://github.com/howtographql/react-apollo/issues/33>

User Issue:

<https://github.com/prisma/graphql-playground/issues/926>

Deps for single purpose :

Extended Array methods:

<https://github.com/lodash/lodash>

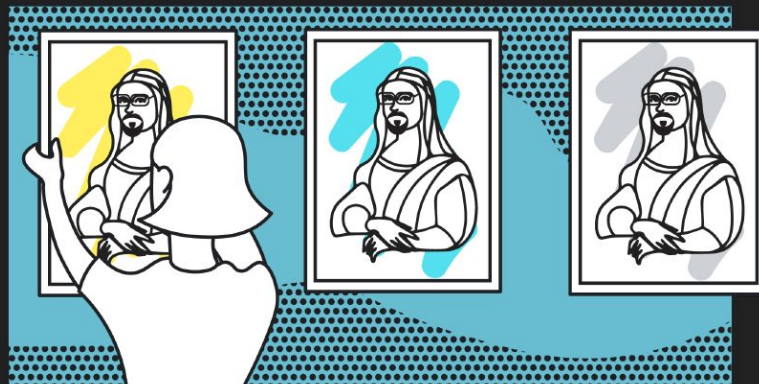
<https://lodash.com/docs>

Unnecessary Package:

Download Utility

[Proposed Dependency](#)

[Implementation](#)



Final Thoughts...



Be Dynamic

Your processes much like
technology we use as
developers must be dynamic

Your ability to adapt and refine
your processes for finding
resources will truly determine your
success as a developer

Be Aware

Freemium or Source Available is
not open source!

SaaS companies take advantage of
exposing developer tools that
aren't the "full version" of the
product

Companies like AWS are known to
do this.

Contribute!

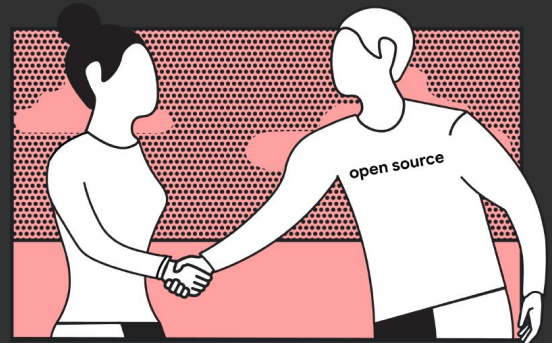
The best way to expose yourself
to the open source world is to
contribute

Open Source is a vast universe
trying to conquer a large set of
issues.

Great place to practice and develop
your skills!

Every skill-set is welcome!

Improved street-cred is always
good ;)



Useful Resources

A personal list I use for scoping
out projects

[Stackshare.io](https://stackshare.io)

[Npms.io](https://npms.io)

[Libraries.io](https://libraries.io)

[Js.coach](https://js.coach)

[Medium.com](https://medium.com)

[Github Trending](https://github.com/trending)

[Twitter!](https://twitter.com)

[Opensource.dev](https://opensource.dev)

codesandbox.io

Thanks!

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