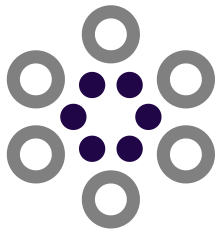


leanup

***Make things pure** ... to become lean.*

leanup js

The `@leanup` **ecosystem** stands for a lightweight and pure way for application development in JavaScript/TypeScript.

Motivation

- Learnability
- Controllability
- Universality
- Flexibility
- Scalability

- Durability
- Transparency

What makes the difference

> *Stop the transitive knowledge.*

We use the minimal configuration and build no overhead stuff on top of the popular tools and make every native command transparent.

Tools and technologies

We use all tools and technologies without cluttered facades.

Principles

- convention over configuration
- pure commands under the hood
- don't repeat yourself
- following the generic instead of the influenced way
- keep the dependencies always up to date

Arguments

The arguments for and against this concept are documented here:

Pro

- select only one pure and popular tool for each use case (e.g. bundling, unit-test)
- there are extensible configuration files for each tool
- due to the flat dependencies we can always stay up to date
- the CLI bundles all the necessary tools in a portable/scalable way
- the risk to get vulnerabilites in dependencies is lower
- leanup's own code is kept to a minimum

Contra

> - please give feedback
> - please show us your perspective

Demo

There are some working examples:

- https://github.modevel.de/poc/
- PoC - Flexible web application architecture
- Hello World - Comparison

Features

Tool/Technology	Description	Status	Note
Babel	Transpiler	✔	ready
Webpack	Bundler	✔	ready
TypeScript	Language	✔	ready
Mocha	Unit-Test-Runner	✔	ready
Chai	Assertion	✔	ready
Sinon	Mocking	✔	ready
NYC	Code-Coverage	✔	ready
ESLint	Code-Checker	✔	ready
Nightwatch.js	E2E-Test-Runner	✔	ready
Allsure	Report	✔	ready
Cucumber	BDD	✔	ready
robotframework	BDD	⏳	will be evaluated
Storybook	Documentation	⏳	in progress
GraphQL	API	✔	ready
Workbox	PWA	✔	ready
Lerna	Mono-Repo	✔	ready
Ant-Design	Material Design	✔	proved
Material	Material Design	✔	proved
Bootstrap	Material Design	✔	proved
Less	CSS	✔	proved
Sass	CSS	✔	proved
Webhint	Webhint	✔	moved ***
TestCafe	E2E-Test-Runner	⏳	will be evaluated ****
TSLint	Code-Checker	✘	removed **
Cypress	E2E-Test-Runner	✘	excluded *

> * Arguments agains Cypress:
>
> - reinvent wheel
> - detect css selectors
> - BDD test syntax
> - principals
> - large tooling

> - a lot of binaries
> - many dependencies
> - ci integration vs selenium hub
>
> It is difficult to keep focus with Cypress as it is more a nice tool than an effective tool. It is expected that a lot of time will be invested to justify the requirements of a project.

> ** TSLint is deprecated.

> *** Webhint is not practical for the development of components, since component tags often have no relation to standard HTML. In addition, the webhint package alone is over 100 MB in size. I have good by using a IDE webhint plugin, like VSCode webhint.

> **** TestCafe The idea that defined TestCafe architecture was that you don't really need an external driver to run end-to-end tests in the browser. That's interesting.

Structure

Vanilla Java-/TypeScript are supported by default. That means for example custom elements and any plain Java-/TypeScript code.

- `@leanup/cli` ✔

Extensions

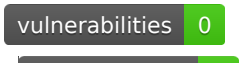
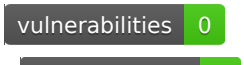
Frameworks

Vanilla Java-/TypeScript are supported by default. That means for example custom elements and any plain Java-/TypeScript code.

The selection of the following frameworks depends in parts on the following references:

- report,
- benchmark and
- survey

Currently the following framework extensions are available:

- `@leanup/cli-angular` ✔ 
- `@leanup/cli-angularjs` ✔ 
- `@leanup/cli-aurelia` ✔ 
- `@leanup/cli-inferno` ✔ 
- `@leanup/cli-preact` ✔ 
- `@leanup/cli-react` ✔ 
- `@leanup/cli-svelte` ✔ 
- `@leanup/cli-vanilla` ✔ 
- `@leanup/cli-vue` ✔ 
- `@leanup/cli-vue3` ✔ (RC) 

Addons

A separate package contains some nice but not required addons for webpack.

- `@leanup/cli-addons` ✔ vulnerabilities 0
- `@leanup/cli-cucumber` NEW ✔ vulnerabilities 0
- `@leanup/cli-graphql` NEW ✔ vulnerabilities 0
- `@leanup/cli-pwa` ✔ vulnerabilities 2
- `@leanup/cli-webhint` ✔ vulnerabilities 0

Thinks

There a separate packages for important application features.

- `@leanup/lib` ✔ NEW vulnerabilities 0
- `@leanup/git-hooks` ✔ NEW vulnerabilities 1
- `@leanup/form` ✔ NEW vulnerabilities 0
- `@leanup/material-preact` ⏳ vulnerabilities 0
- `@leanup/material-vanilla` ⏳ vulnerabilities 0
- `@leanup/ui` ⏳ IN PROGRESS