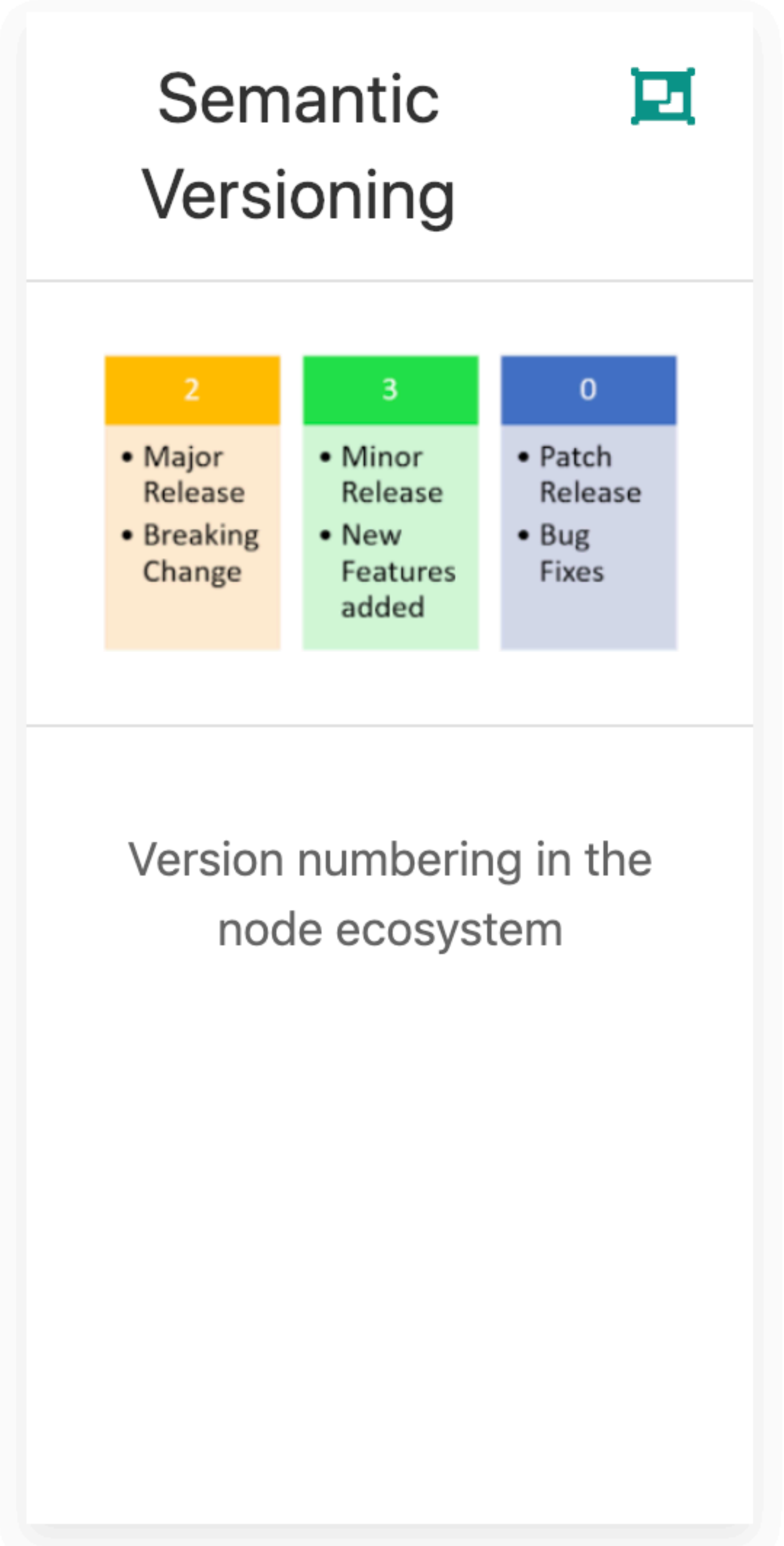
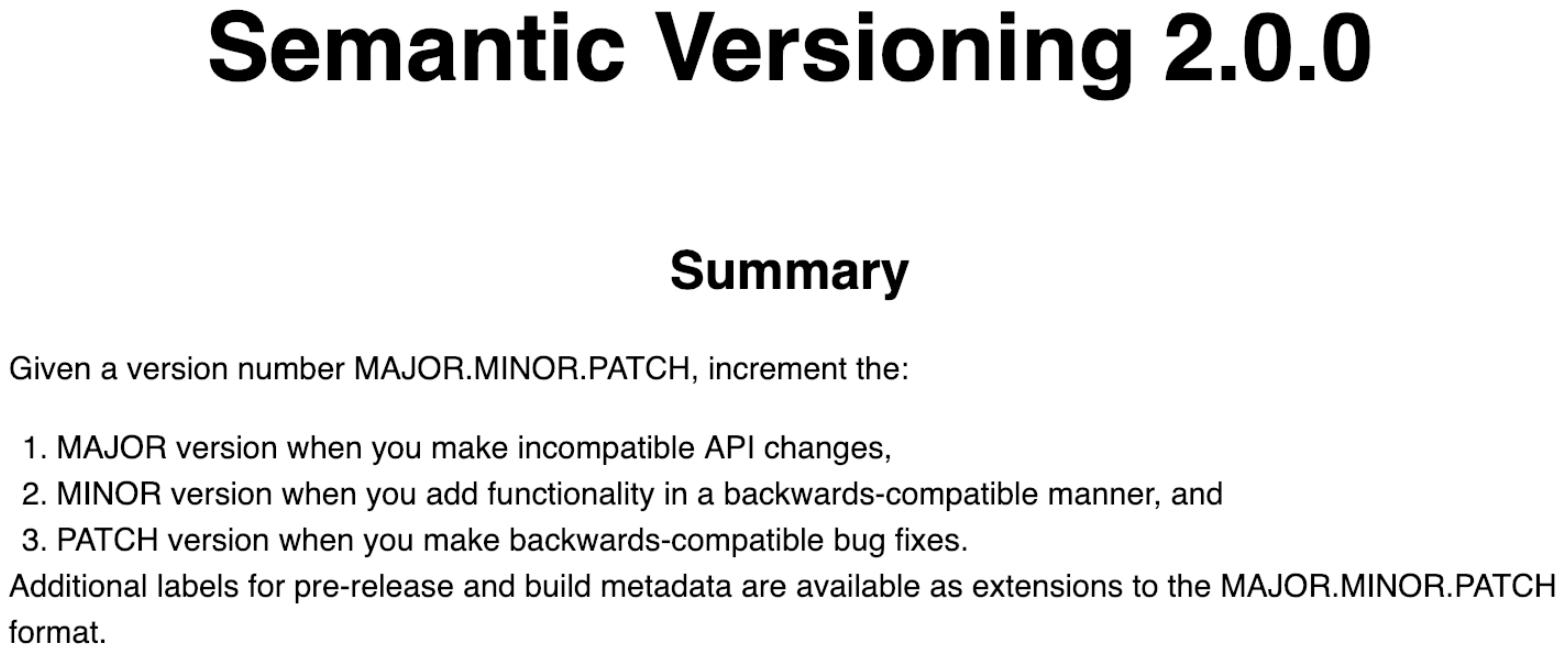
Semantic Versioning



Semantic Versioning

Version numbering in the node ecosystem

https://semver.org/



Semantic Versioning 2.0.0

Summary

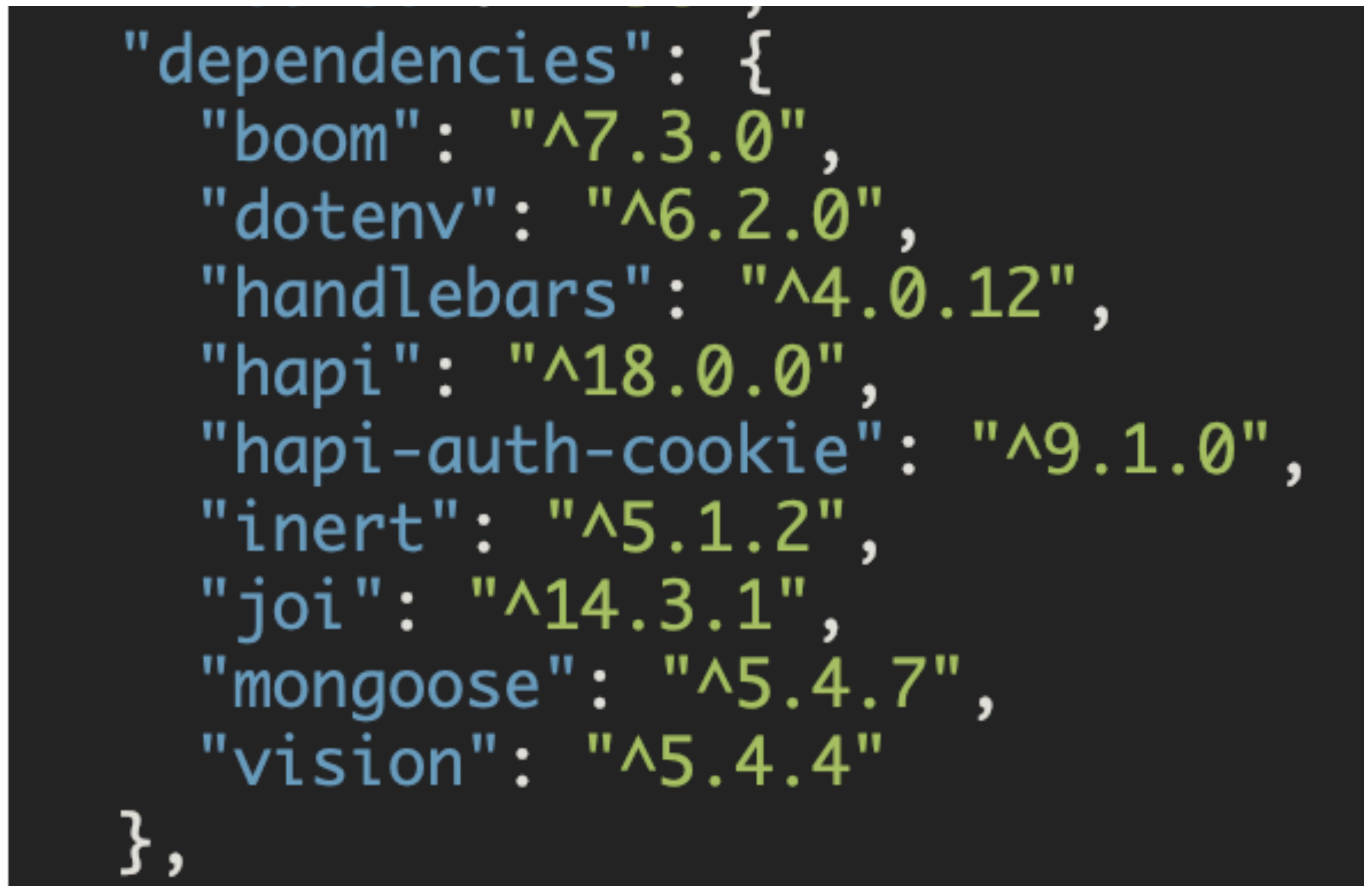
Given a version number MAJOR.MINOR.PATCH, increment the:

1. MAJOR version when you make incompatible API changes,
2. MINOR version when you add functionality in a backwards-compatible manner, and
3. PATCH version when you make backwards-compatible bug fixes.

Additional labels for pre-release and build metadata are available as extensions to the MAJOR.MINOR.PATCH format.

Semantic Versioning of Packages

- Semantic versioning is a standard node projects use to communicate what kinds of changes are in a new release.
- Communicate what kinds of changes are in a release because sometimes those changes will break the code that depends on the package.



```
  "dependencies": {
    "boom": "^7.3.0",
    "dotenv": "^6.2.0",
    "handlebars": "^4.0.12",
    "hapi": "^18.0.0",
    "hapi-auth-cookie": "^9.1.0",
    "inert": "^5.1.2",
    "joi": "^14.3.1",
    "mongoose": "^5.4.7",
    "vision": "^5.4.4"
  },
```

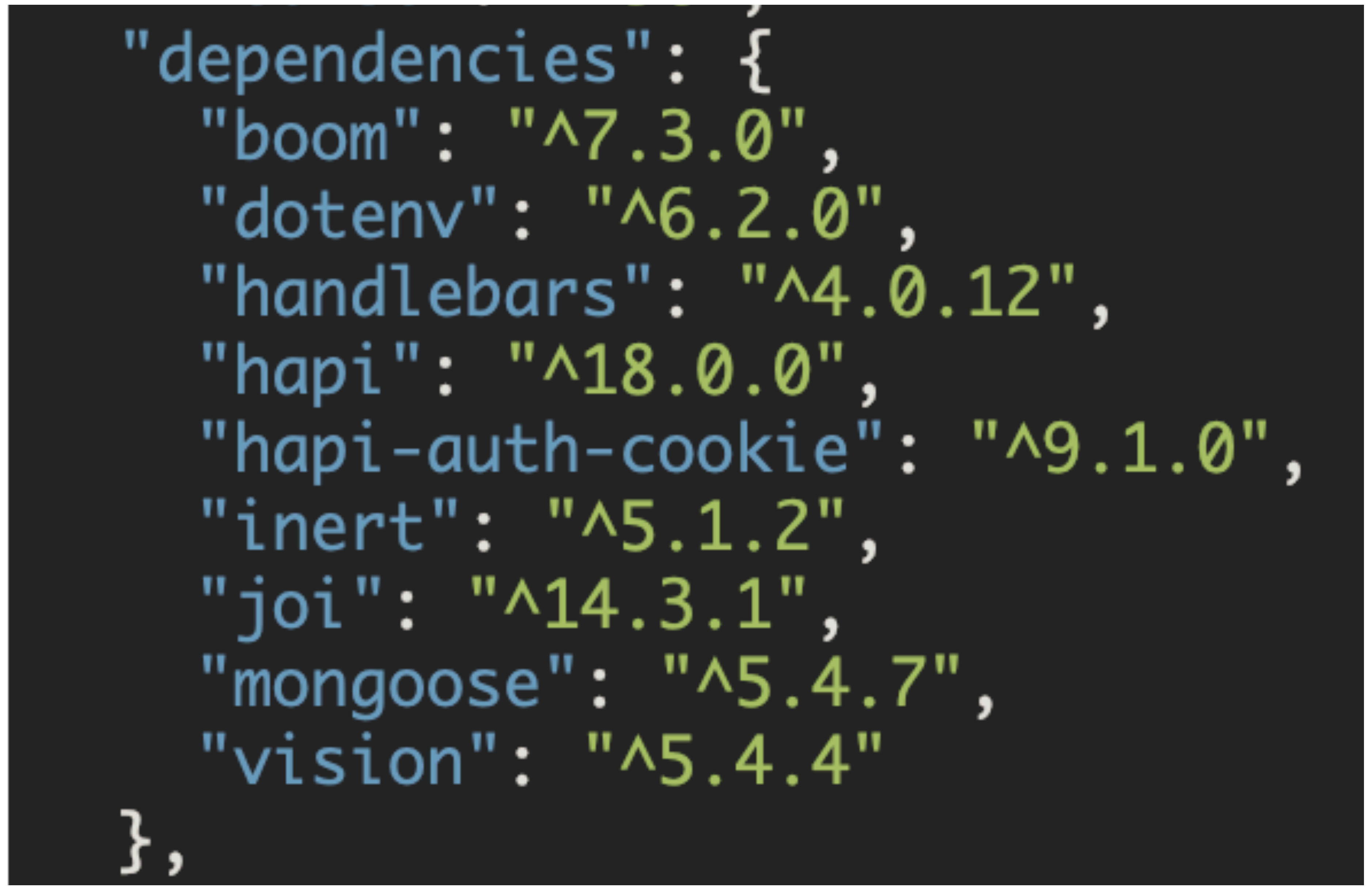
- 3-component system in the format of x.y.z where:
  - x stands for a major version
  - y stands for a minor version
  - z stands for a patch
- Major.Minor.Patch.

^ Symbol

- The caret ^ range specifier permits automatic upgrades to minor version increments of a package

- So if ‘npm install’ is invoked, the actual version downloaded and installed may be more recent that the one enumerated in package.json

- For caret ranges, only major version must match. Any minor or patch version greater than or equal to the minimum is valid.

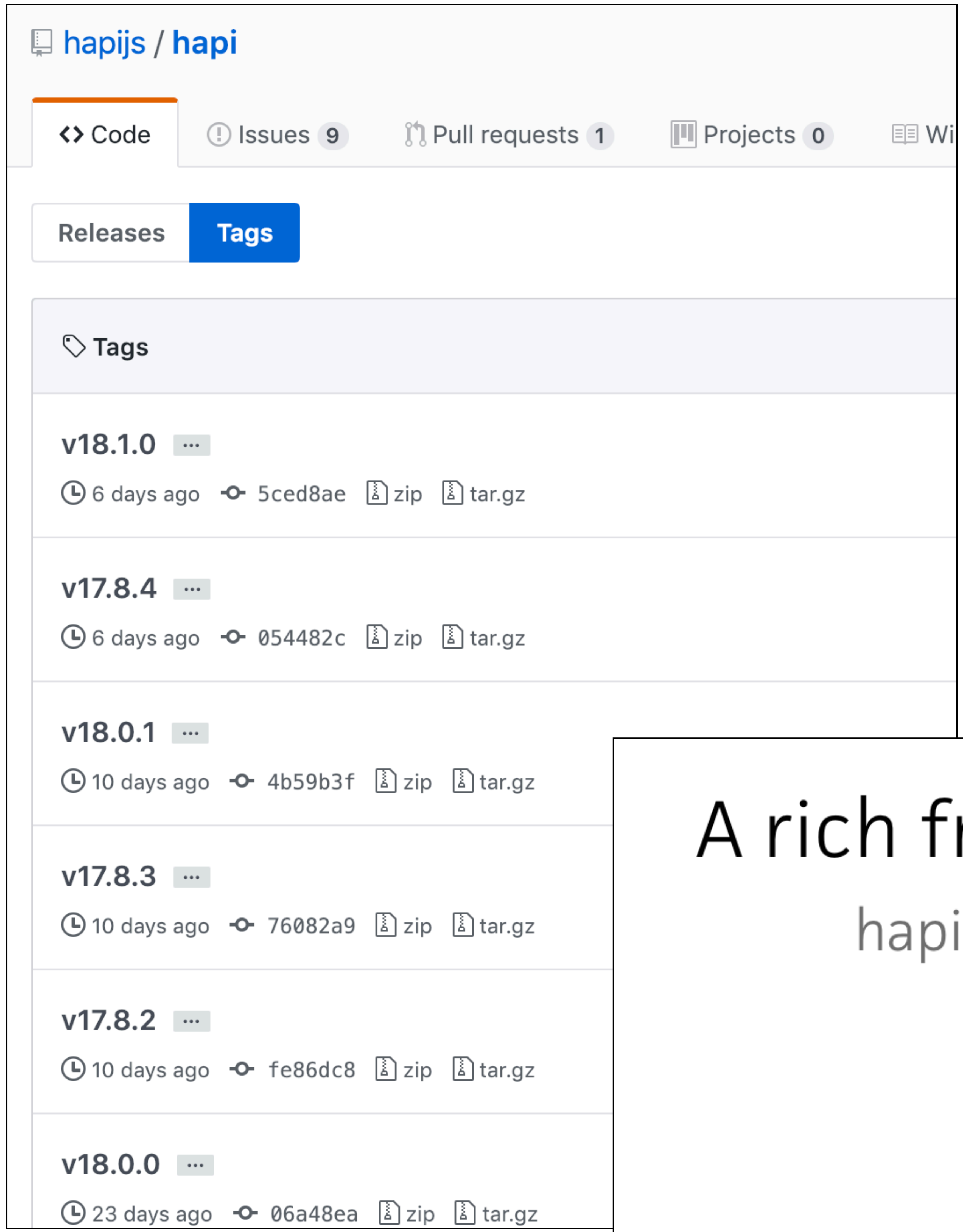


```
  "dependencies": {
    "boom": "^7.3.0",
    "dotenv": "^6.2.0",
    "handlebars": "^4.0.12",
    "hapi": "^18.0.0",
    "hapi-auth-cookie": "^9.1.0",
    "inert": "^5.1.2",
    "joi": "^14.3.1",
    "mongoose": "^5.4.7",
    "vision": "^5.4.4"
  },
```

- Example

  - ^1.2.3 permits versions from 1.2.3 all the way up to, but not including, the next major version, 2.0.0.

hapi.js versions


hapijs / hapi

Code | Issues 9 | Pull requests 1 | Projects 0 | Wi

Releases | Tags

Tags

v18.1.0 ...
6 days ago 5ced8ae zip tar.gz

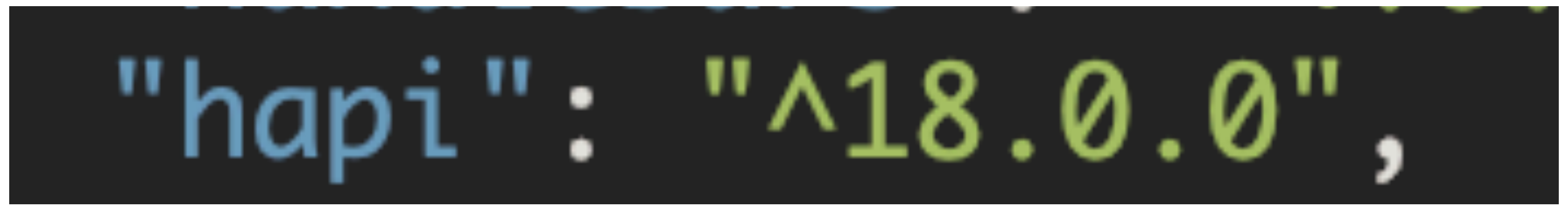
v17.8.4 ...
6 days ago 054482c zip tar.gz

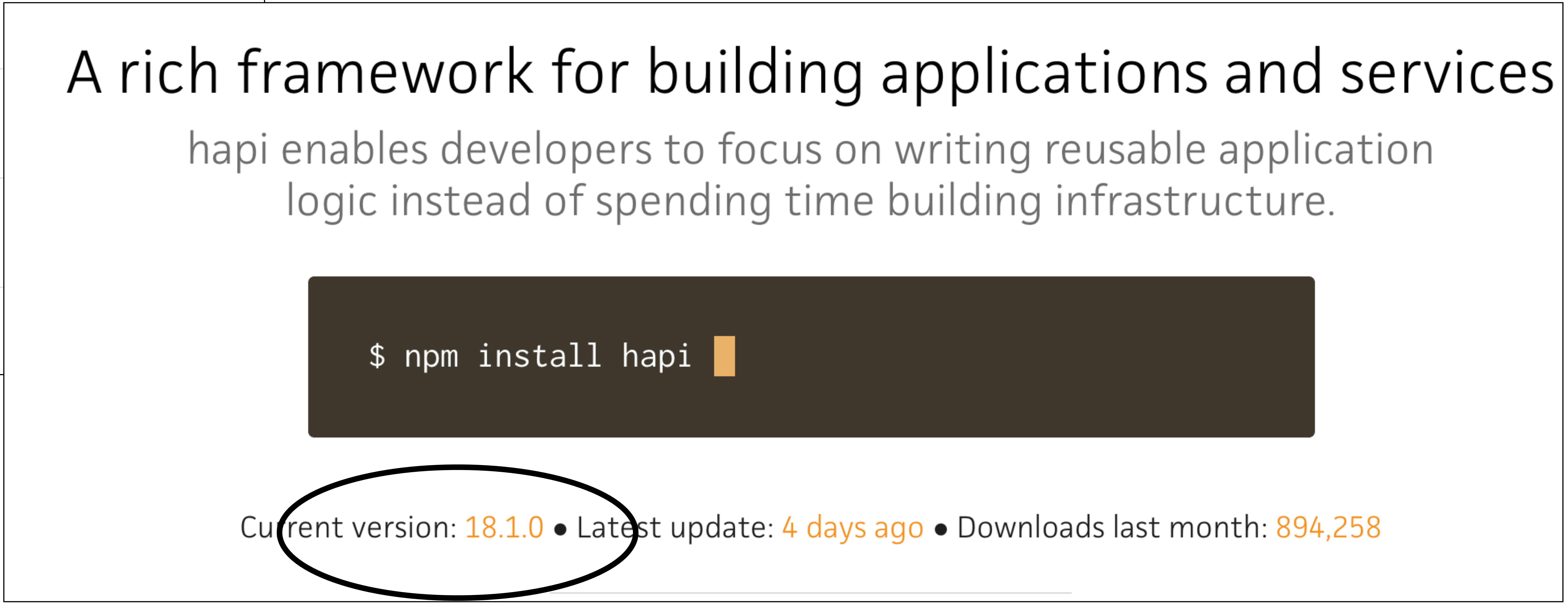
v18.0.1 ...
10 days ago 4b59b3f zip tar.gz

v17.8.3 ...
10 days ago 76082a9 zip tar.gz

v17.8.2 ...
10 days ago fe86dc8 zip tar.gz

v18.0.0 ...
23 days ago 06a48ea zip tar.gz


```
"hapi": "^18.0.0",
```

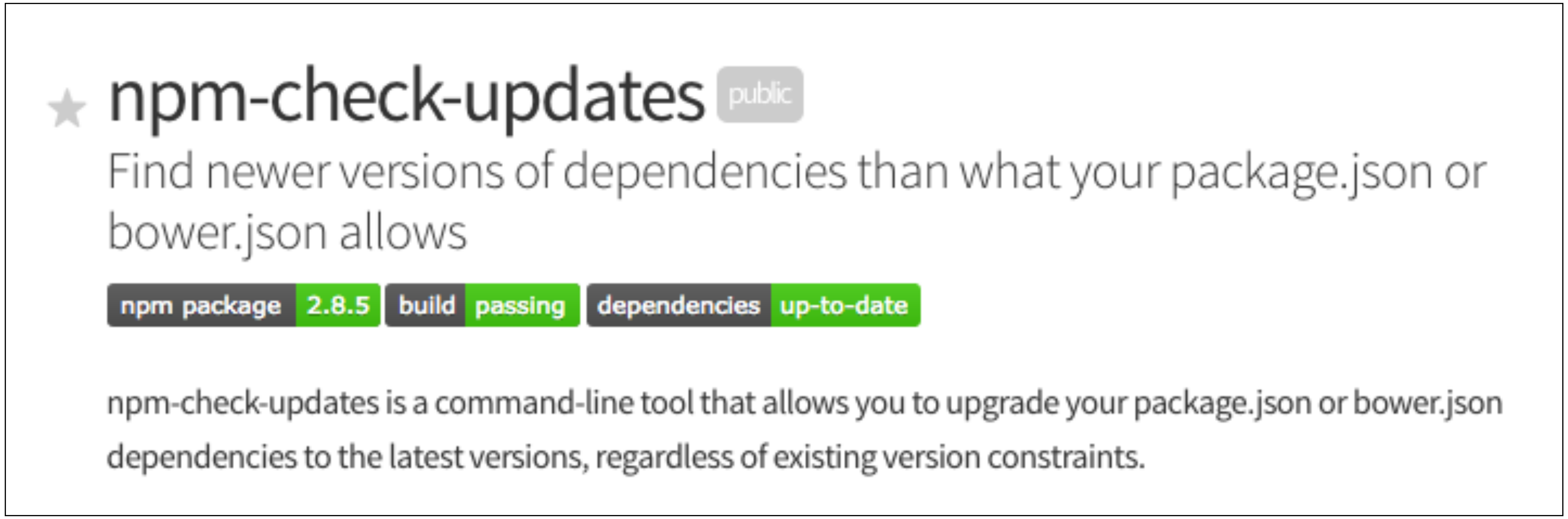

A rich framework for building applications and services

hapi enables developers to focus on writing reusable application logic instead of spending time building infrastructure.

```
$ npm install hapi
```

Current version: 18.1.0 • Latest update: 4 days ago • Downloads last month: 894,258

Updating all Dependencies



npm-check-updates public

Find newer versions of dependencies than what your package.json or bower.json allows

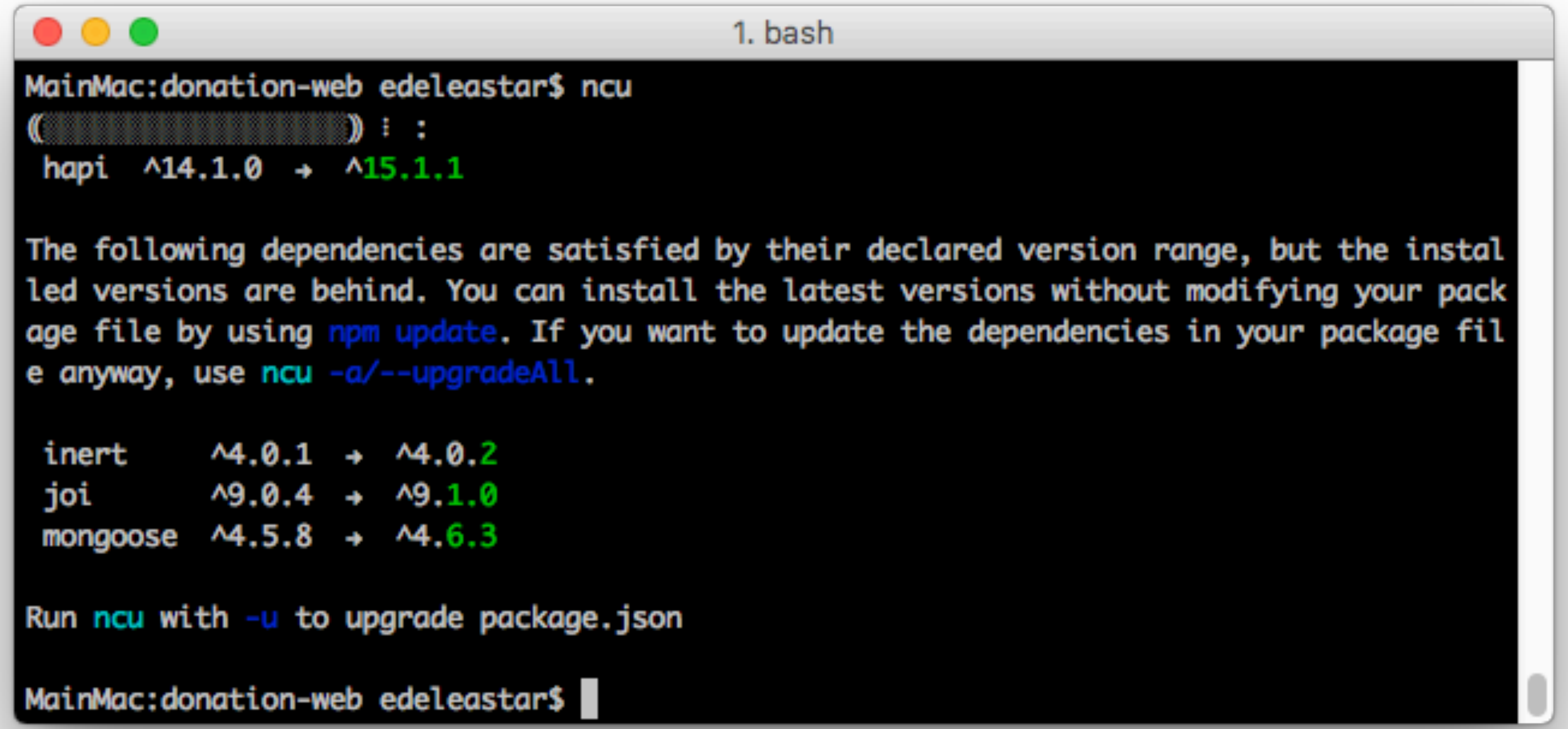
npm-check-updates is a command-line tool that allows you to upgrade your package.json or bower.json dependencies to the latest versions, regardless of existing version constraints.

```
$ npm install npm-check-updates -g
```

Report on Dependency Status (no change)

```
$ ncu
```

```
"dependencies": {
  "handlebars": "^4.0.5",
  "hapi": "^14.1.0",
  "hapi-auth-cookie": "^6.1.1",
  "inert": "^4.0.1",
  "joi": "^9.0.4",
  "mongoose": "^4.5.8",
  "vision": "^4.1.0"
}
```



```
MainMac:donation-web edeleastar$ ncu
 hapi  ^14.1.0  →  ^15.1.1

The following dependencies are satisfied by their declared version range, but the instal
led versions are behind. You can install the latest versions without modifying your pack
age file by using npm update. If you want to update the dependencies in your package fil
e anyway, use ncu -a/--upgradeAll.

 inert     ^4.0.1  →  ^4.0.2
 joi       ^9.0.4  →  ^9.1.0
 mongoose  ^4.5.8  →  ^4.6.3

Run ncu with -u to upgrade package.json

MainMac:donation-web edeleastar$
```

Force upgrade all dependencies

```
$ ncu -u
```

```
"dependencies": {
  "handlebars": "^4.0.5",
  "hapi": "^14.1.0",
  "hapi-auth-cookie": "^6.1.1",
  "inert": "^4.0.1",
  "joi": "^9.0.4",
  "mongoose": "^4.5.8",
  "vision": "^4.1.0"
}
```

```
"dependencies": {
  "handlebars": "^4.0.5",
  "hapi": "^15.1.1",
  "hapi-auth-cookie": "^6.1.1",
  "inert": "^4.0.1",
  "joi": "^9.0.4",
  "mongoose": "^4.5.8",
  "vision": "^4.1.0"
}
```