

package.json

--	--

- __
- files __
- __
 - main
 - exports
 - imports



npm package.json

npm ☐ CommonJS ☐ ES ☐ ES ☐

- `package.json` `type` `module`
- `node` `--input-type=module` `--eval` `--print`
- `ES` `import` `export` `import.meta`

CommonJS

- `package.json` `type` `commonjs`
- `node` `--input-type=commonjs` `--eval` `--print`

 Node.js
 CommonJS
 ES

files 

files

NPM

files

```
{
  "name": "@adam_baldwin/wombats",
  "version": "1.0.0",
  "description": "",
  "main": "index.js",
  "files": [
    "index.js"
  ],
  ...
}
```

npm

.gitignore

.npmignore

.gitignore

files

.npmignore

files

.npmignore

.gitignore

- package.json
- README
- CHANGES / CHANGELOG / HISTORY
- LICENSE / LICENCE
- NOTICE
- main

README

CHANGES

LICENSE

NOTICE

- .git
- CVS
- .svn
- .hg
- .lock-wscript
- .wafpickle-N
- *.swp
- .DS_Store
- ._*
- npm-debug.log
- .npmrc

- node_modules
- config.gypi
- *.orig
- package-lock.json

npm files package.json

npm-packlist npm pack tgz



main

main foo require('foo')

main

main index.js

exports

exports Node.js 10 main exports main

exports

exports

```
{
  "exports": "./index.js"
}
```

exports require('pkg')

require('pkg/subpath.js')

main exports

```
{
  "main": "./index.js",
  "exports": "./index.js"
}
```

exports

```
{
  "exports": {
    ".": "./index.js",
    "./submodule.js": "./src/submodule.js"
  }
}
```

_____ . _____ ./submodule.js _____

```
import submodule from 'es-module-package/submodule.js';
```

```
{
  "exports": "./index.js"
}

// 测试
{
  "exports": {
    ".": "./index.js"
  }
}
```

The diagram illustrates the process of splitting a 16-bit array into two 8-bit arrays. On the left, a single horizontal bar represents a 16-bit array, divided into 16 equal segments. An arrow points from this bar to two separate 8-bit arrays on the right. Each of these arrays is represented by a horizontal bar divided into 8 segments, with a ".js" label next to it, indicating that each 8-bit array is treated as a separate JavaScript file.

```
{
  "name": "my-package",
  "exports": {
    ".": "./lib/index.js",
    "./lib": "./lib/index.js",
    "./lib/index": "./lib/index.js",
    "./lib/index.js": "./lib/index.js",
    "./feature": "./feature/index.js",
    "./feature/index": "./feature/index.js",
    "./feature/index.js": "./feature/index.js",
  }
}
```

```
    "package.json": "package.json"
  }
}
```

Diagram illustrating the layout of the `feature` file. The `feature` entry is highlighted in light blue.

```
{
  "exports": {
    "import": "./index-module.js",
    "require": "./index-require.cjs"
  },
  "type": "module"
}
```

```
import ES ./.index-module.js CommonsJS
require ./.index-require.cjs
```

exports 

- node-addons 
- node 
- import   
- require 
- default 

```
{
  "exports": {
    ".": "./index.js",
    "./feature.js": {
      "node": "./feature-node.js",
      "default": "./feature.js"
    }
  }
}
```

exports

```
{
  "exports": {
    "node": {
      "import": "./feature-node.mjs",
      "require": "./feature-node.cjs"
    },
    "default": "./feature.mjs"
  }
}
```

imports

```

{
  "imports": {
    "#dep": {
      "node": "dep-node-native",
      "default": "./dep-polyfill.js"
    }
  },
  "dependencies": {
    "dep-node-native": "^1.0.0"
  }
}
```

	imports	#dep	import dep from "#def";	Node.js
	dep-node-native		./dep-polyfill.js	