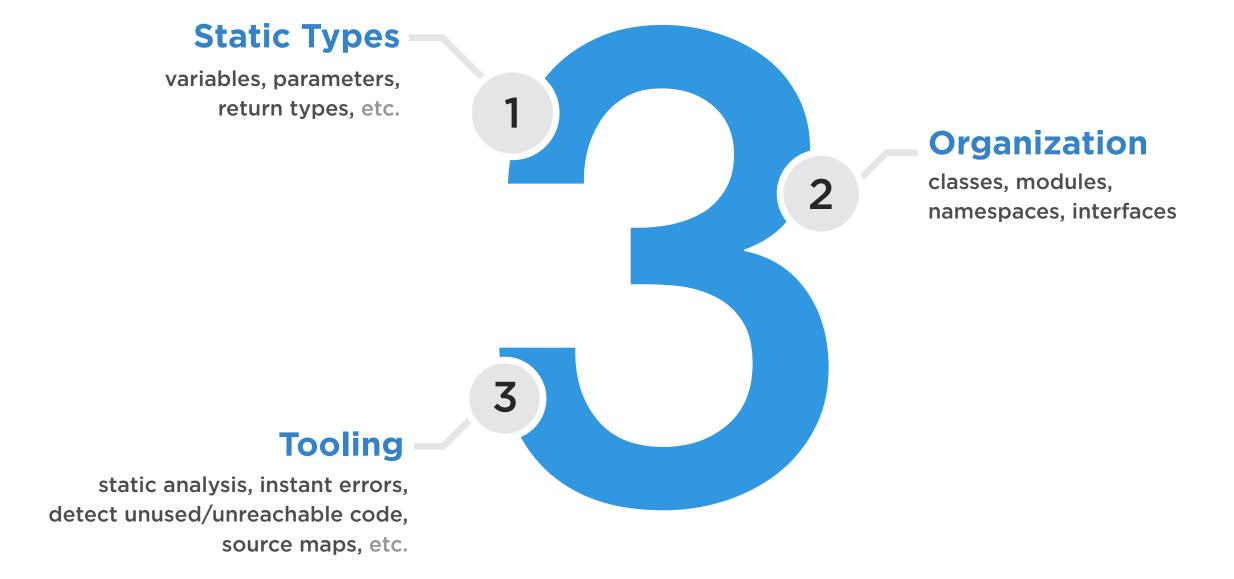
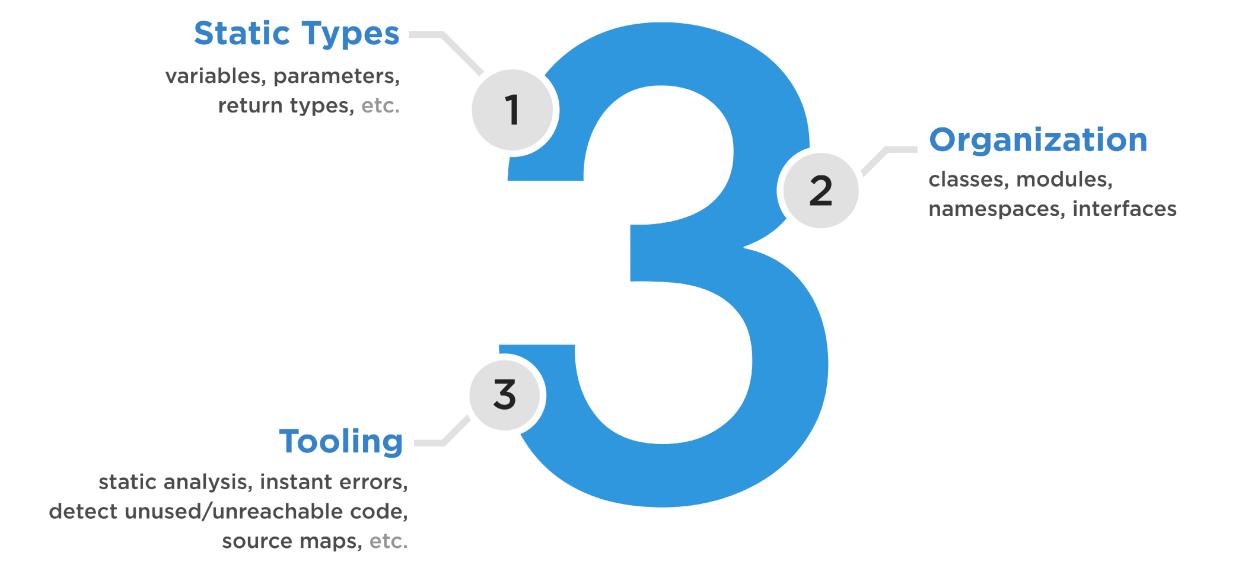
Writing TypeScript Applications



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Static Types

variables, parameters, return types, etc.



Declaring Variables

```
variables.js

let firstName = "Alice";

let age = 72;

let activeMember = true;

firstName = 1; // OK in JavaScript
```

variables.ts

```
let firstName = "Alice";
let age = 72;
let activeMember = true;

firstName = 1; // NOT OK in TypeScript
```

Type '123' is not assignable to type 'string'. ts(2322)

Type Inference



Type Information in Functions

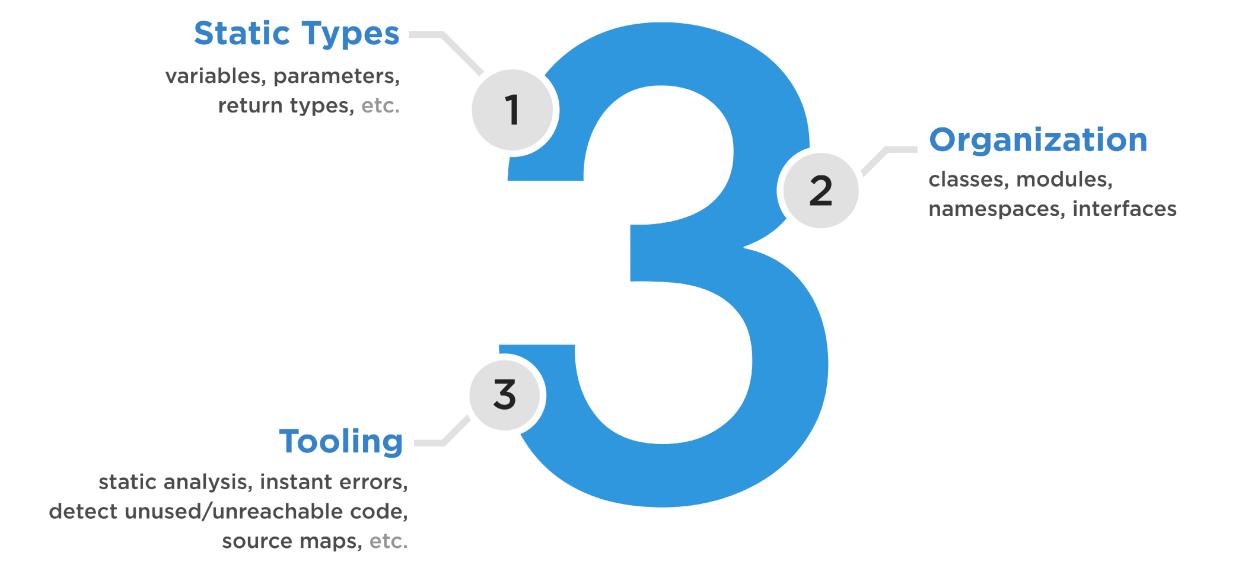
```
// RygeSeriptvaSytepfuatylenfunction
function simpleFunction(aamb:) string, isActive: boolean : void {
    // code here...
    return 0; // need to return a number!
}
```



Static Types

variables, parameters, return types, etc.







Organization

classes, modules, namespaces, interfaces

Working with Modules in TypeScript



Search Wikipedia

Q

×



Main page
Contents
Featured content
Current events
Random article
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Interaction

Help About Wikipedia Community portal

Recent changes

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Tools

What links here
Related changes
Upload file
Special pages
Permanent link
Page information
Wikidata item
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C

CommonJS

From Wikipedia, the free encyclopedia

For usage in Wikipedia, see Special:Mypage/common.js, Wikipedia:Common.js and common.css, and MediaWiki:Common.js.

RequireJS

CommonJS was a project with the goal to establish conventions on module ecosystem for JavaScript outside of the web browser. The primary reason of its creation was a major lack of commonly accepted form of JavaScript scripts module units which could be reusable in environments different from that provided by a conventional web browser e.g. web server or native desktop applications which run JavaScript scripts.

CommonJS maintains specifications (including drafts) and a list of implementations on a MediaWiki site. All editing activities have ceased since November 2014, marking the effective end of its life.^[1]

Contents [hide]

- 1 History
- 2 Specifications
 - 2.1 Current
 - 2.2 Proposals
- 3 Implementations
- 4 See also
- 5 References
- 6 External links

0

RequireJS

import - JavaScript | MDN

EQUIRE. A JAVASCRIPT MADILLE LAXDED

CommonJS - Wikipedia

| MODULE LOADER | |
|-----------------|----------|
| Home | # |
| Start | Ф |
| Download | ŧ |
| API | ф |
| Optimization | 0 |
| | |
| Use with jQuery | (/) |
| Use with Node | (/> |
| Use with Dojo | (/) |
| CommonJS Notes | (/> |
| | |
| FAQs | 0 |
| Common Errors | 0 |
| Writing Plugins | ф |
| | |
| Why Web Modules | 0 |
| Why AMD | 0 |
| Requirements | √ |
| History | Ō |
| | |

```
/* ---
```

RequireJS is a JavaScript file and module loader. It is optimized for in-browser use, but it can be used in other JavaScript environments, like Rhino and Node. Using a modular script loader like RequireJS will improve the speed and quality of your code.

IE 6+ compatible ✔

Firefox 2+ compatible ✔

Safari 3.2+ compatible ✔

Chrome 3+ compatible ✔

Opera 10+ compatible ✔

Get started then check out the API.

--- */





import

Web technology for developers > JavaScript > JavaScript reference > Statements and declarations > import

English ▼

On this Page

Syntax

Description

Examples

Specifications

Browser compatibility

See also

The static **import** statement is used to import bindings which are exported by another module. Imported modules are in **strict** mode whether you declare them as such or not. The **import** statement cannot be used in embedded scripts unless such script has a type="module".

There is also a function-like dynamic import(), which does not require scripts of type="module".

Backward compatibility can be ensured using attribute nomodule on the script tag.

Dynamic import is useful in situations where you wish to load a module conditionally, or ondemand. The static form is preferable for loading initial dependencies, and can benefit more readily from static analysis tools and tree shaking.

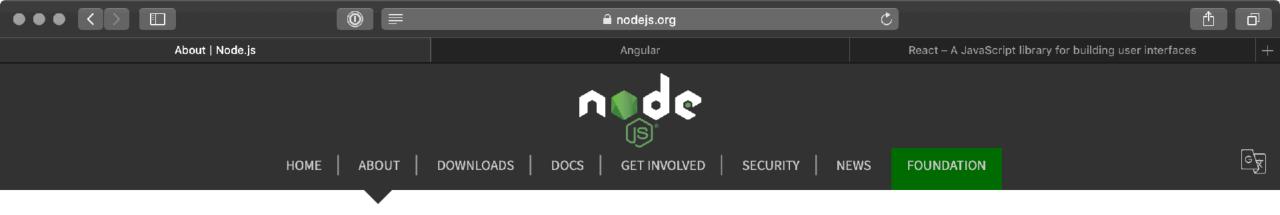
Related Topics

JavaScript

Tutorials:

Complete beginners

```
stsconfig.json
tsconfig.json > { } compilerOptions
         "compilerOptions": {
           /* Basic Options */
                                                     /* Enable incremental compilation */
           // "incremental": true,
           "target": "es2015",
                                                        /* Specify ECMAScript target version: 'ES3'
           (default), 'ES5', 'ES2015', 'ES2016', 'ES2017', 'ES2018', 'ES2019' or 'ESNEXT', */
          "module": "es2015", /* Specify module code generation: 'none', 'commonjs', 'amd', 'system',
  6
           'umd', 'es2015', or 'ESNext'. */
           // "lib": [],
                                                      /* Specify library files to be included in the
           compilation. */
           // "allowJs": true,
                                                     /* Allow javascript files to be compiled. */
           // "checkJs": true,
                                                     /* Report errors in .js files. */
           // "isx": "preserve",
 10
                                                     /* Specify JSX code generation: 'preserve',
           'react-native', or 'react'. */
                                                     /* Generates corresponding '.d.ts' file. */
 11
           // "declaration": true,
           // "declarationMap": true,
 12
                                                     /* Generates a sourcemap for each corresponding
           '.d.ts' file. */
 13
           // "sourceMap": true,
                                                     /* Generates corresponding '.map' file. */
           // "outFile": "./",
                                                     /* Concatenate and emit output to single file. */
 14
                                                    /* Redirect output structure to the directory. */
 15
           "outDir": "./is",
 16
           // "rootDir": "./",
                                                     /* Specify the root directory of input files.
           Use to control the output directory structure with --outDir. */
           // "composite": true
                                                      /w Fnahle project compilation w/
 17
```



About

Governance

Community

Working Groups

Releases

Resources

Trademark

Privacy Policy

About Node.js®

As an asynchronous event-driven JavaScript runtime, Node.js is designed to build scalable network applications. In the following "hello world" example, many connections can be handled concurrently. Upon each connection, the callback is fired, but if there is no work to be done, Node.js will sleep.

Edit on GitHub

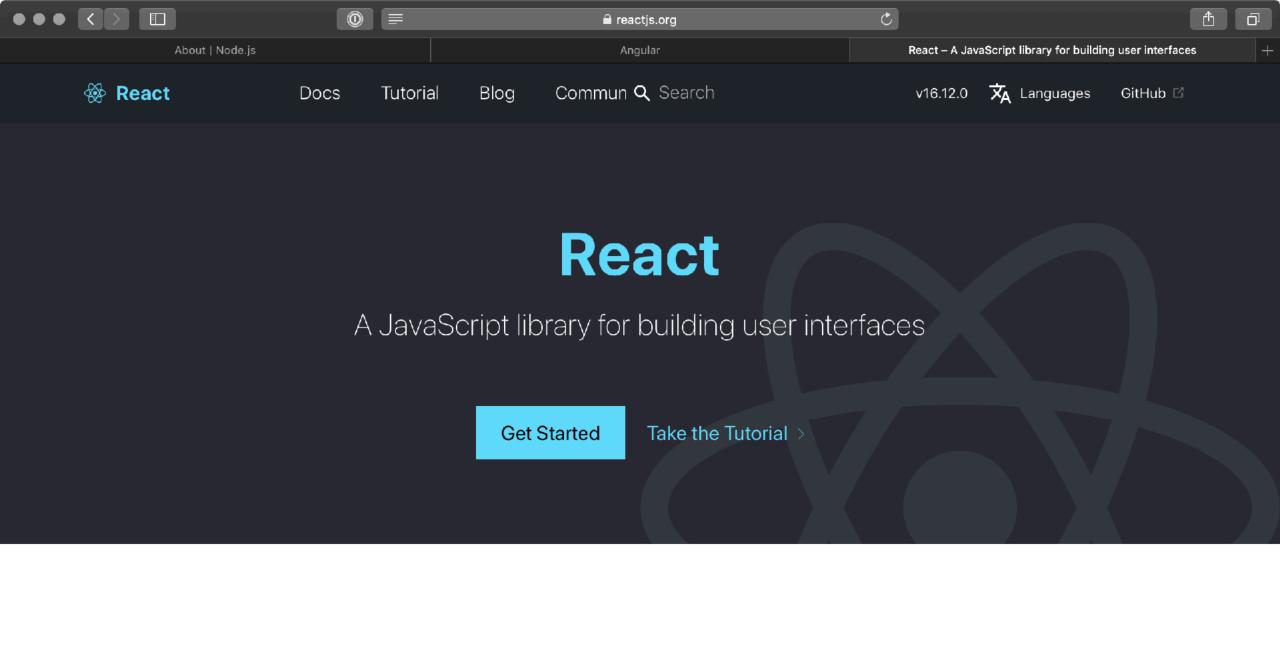
```
const http = require('http');

const hostname = '127.0.0.1';
const port = 3000;

const server = http.createServer((req, res) => {
    res.statusCode = 200;
    res.setHeader('Content-Type', 'text/plain');
    res.end('Hello World\n');
});

server lister(nort_hostname_() => {
```





Declarative

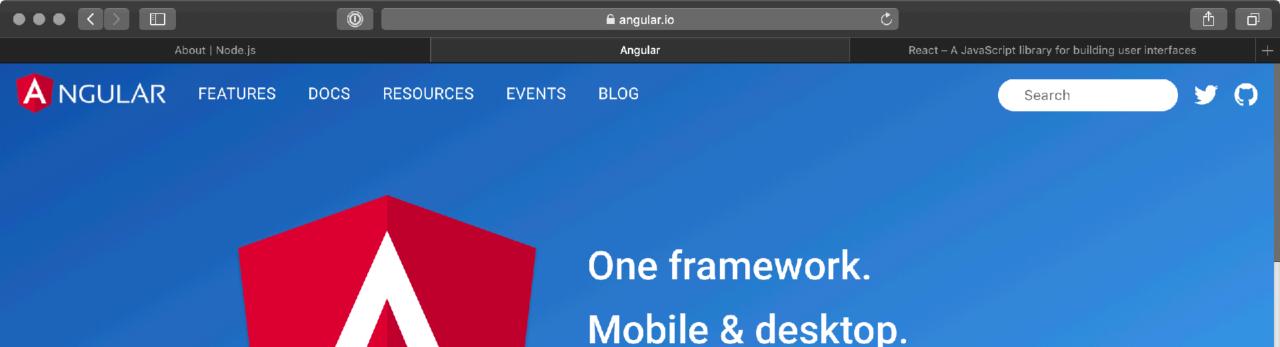
Component-Based

Learn Once, Write Anywhere

React makes it painless to create interactive

Build encapsulated components that

We don't make assumptions about the rest



Angular is a TypeScript-based open-source web application framework led by the Angular Team at Google and by a community of individuals and corporations. Angular is a complete rewrite from the same team that built AngularJS. Wikipedia



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