

# TypeScript Modules

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Short about modules

# Motivation

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A basic understanding of modules is helpful for all frameworks.

# Modules

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There are three main things to consider when writing module-based code in TypeScript:

- **Syntax:** What syntax do I want to use to import and export items?
- **Module Resolution:** What is the relationship between module names (or paths) and files on disk?
- **Module Output Target:** What should my emitted JavaScript module look like?

# Modules

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ES-Module syntax export:



```
1 // @filename: maths.ts
2 export var pi = 3.14;
3 export let squareTwo = 1.41;
4 export const phi = 1.61;
5 export class RandomNumberGenerator {}
6 export function absolute(num: number) {
7   if (num < 0) return num * -1;
8   return num;
9 }
```

# Modules

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ES-Module syntax export:



```
1 import { pi, phi, absolute } from "./maths.js";  
2 console.log(pi);  
3 const absPhi = absolute(phi);
```

# Well done!

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We can now continue with more advanced topics.

# End

That was all for this chapter

