JavaScript Module Fundamentals

WHY MODULES MATTER IN JAVASCRIPT



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Module

A group of code and data related to a particular piece of functionality. It encapsulates implementation details, exposes a public API, and is combined with other modules to build a larger application.

The Goals of Modularity

Create higher-level abstractions

Encapsulation

Reusability

Simplify dependency management



Once upon a time...in 1995.



No support for modules.



Popularity grows.

Popularity leads to bigger apps.

Bigger apps lead to greater complexity.



We need modules!!!



Lots of solutions were developed.



Packaging and distribution is hard.



Lots of solutions were developed.



Meanwhile...



JavaScript supports modules!



There was much confusion...until now!



Course Modules

Module Patterns in ES5

Module Formats and Loaders

Modules in ES2015

Module Bundlers





Visual Studio Code

- https://code.visualstudio.com

Node.js

- https://nodejs.org

npm

Various npm packages

