

# NODE.JS, EXPRESS & MONGODB

THE COMPLETE BOOTCAMP

## SECTION

HOW NODE.JS WORKS: A LOOK BEHIND THE SCENES

## LECTURE

HOW REQUIRING MODULES REALLY WORKS

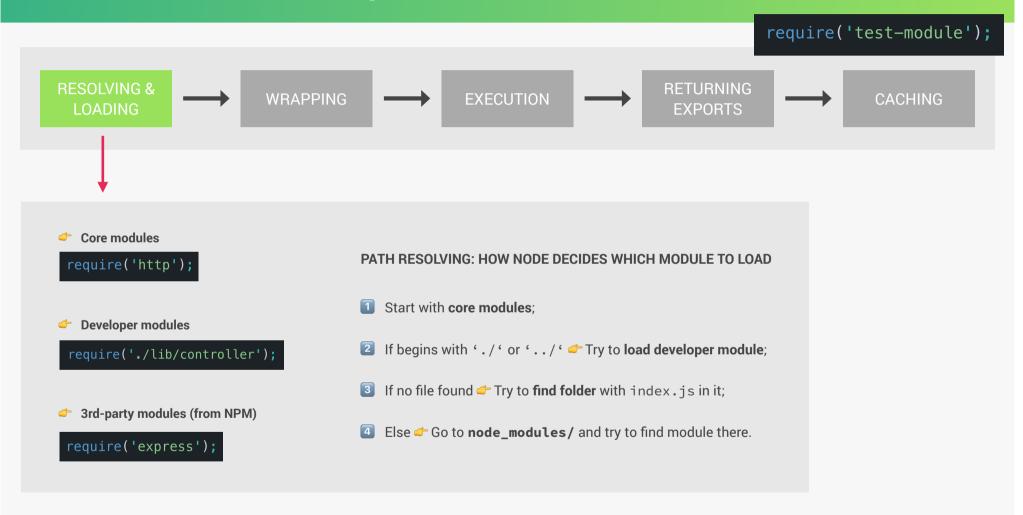


# THE COMMONJS MODULE SYSTEM

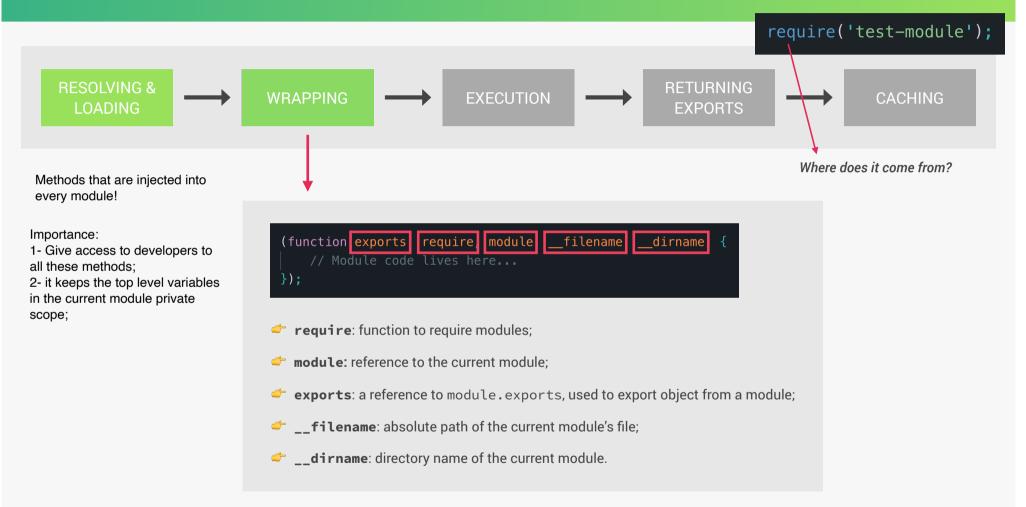
- Each JavaScript file is treated as a separate module;
- Node.js uses the CommonJS module system: require(), exports or module.exports;
- **ES module system** is used in browsers: import/export;
- There have been attempts to bring ES modules to node.js (.mjs).



## WHAT HAPPENS WHEN WE REQUIRE() A MODULE



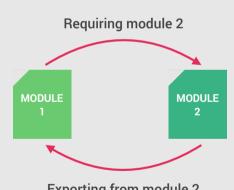
### WHAT HAPPENS WHEN WE REQUIRE() A MODULE



# WHAT HAPPENS WHEN WE REQUIRE() A MODULE,



- require function returns **exports** of the required module;
- module.exports is the returned object (important!);
- Use module.exports to export one single variable, e.g. one
  class or one function (module.exports = Calculator);
- Use exports to export multiple named variables
  (exports.add = (a, b) => a + b);
- This is how we import data from one module into another;



Exporting from module 2
Importing to module 1

# WHAT HAPPENS WHEN WE REQUIRE() A MODULE

