

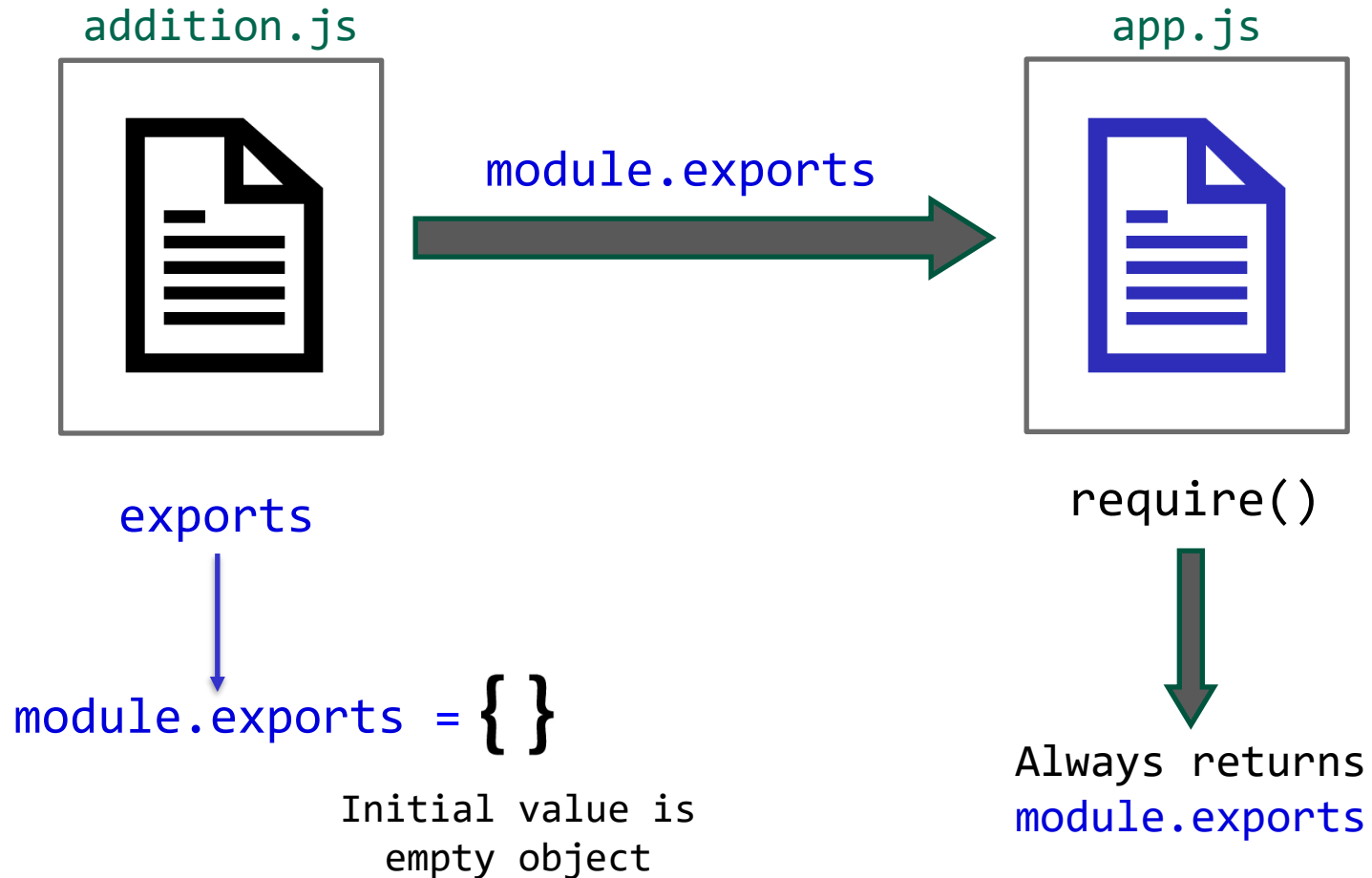


Module.exports vs exports

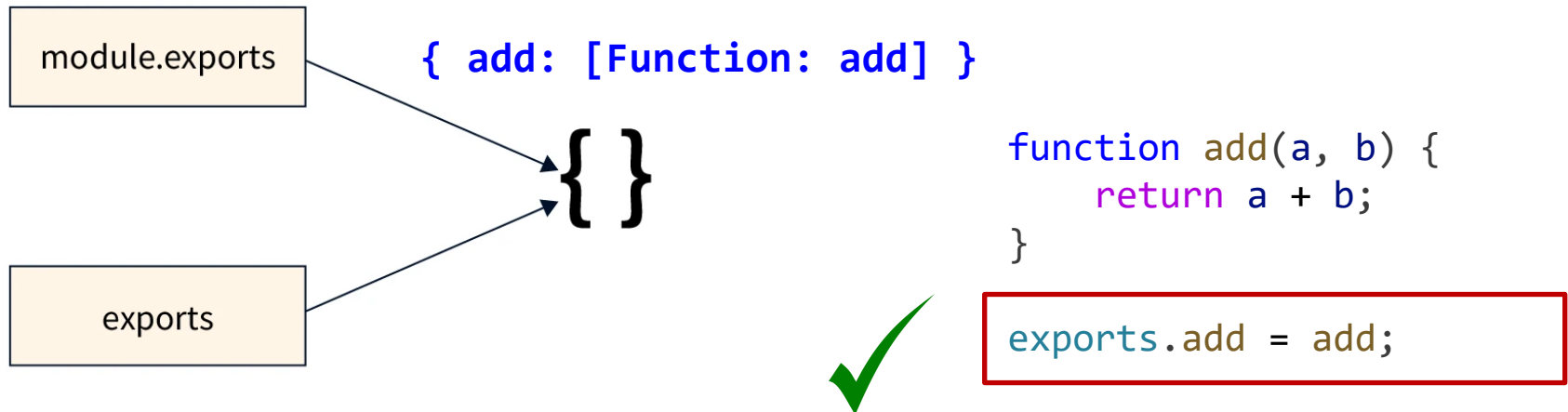
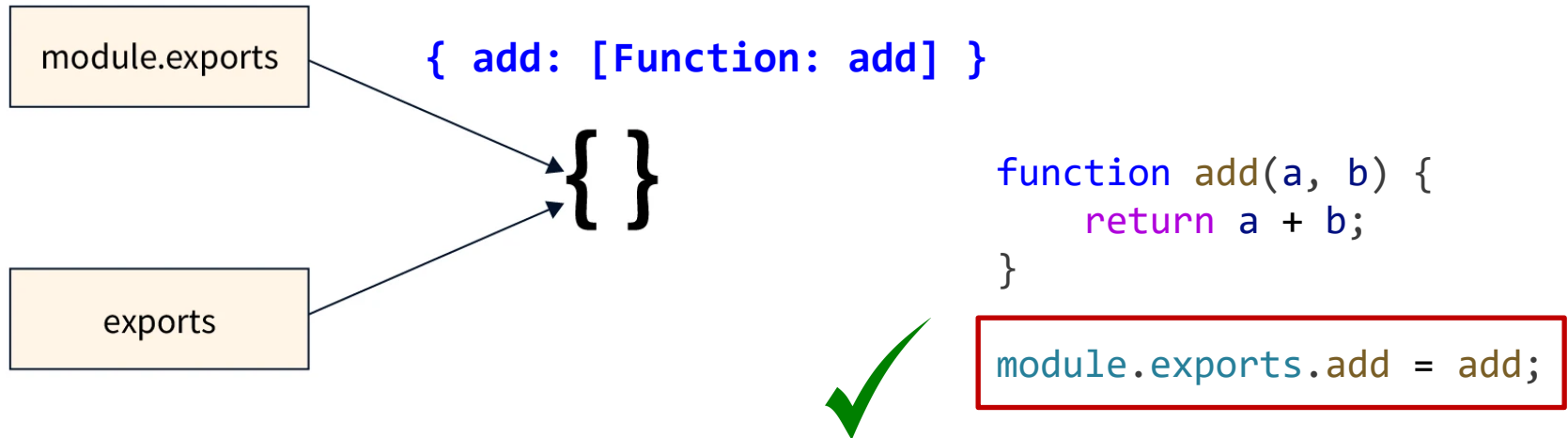
- The *module* is a plain JavaScript Object representing the current module.
- The module object has *exports* property which is a JavaScript variable, i.e. module.exports.
- The *exports* variable happens to be set to *module.exports*.
- When you assign something (literal, variable or function) to *exports* directly, you are not assigning it to the *exports* property of the *module* object.
- So *exports* is just a convenience feature so that the module authors (developers) can write less code.

Be very careful while using 'exports' directly!

module.exports and exports



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```
function add(a, b) {  
    return a + b;  
}
```

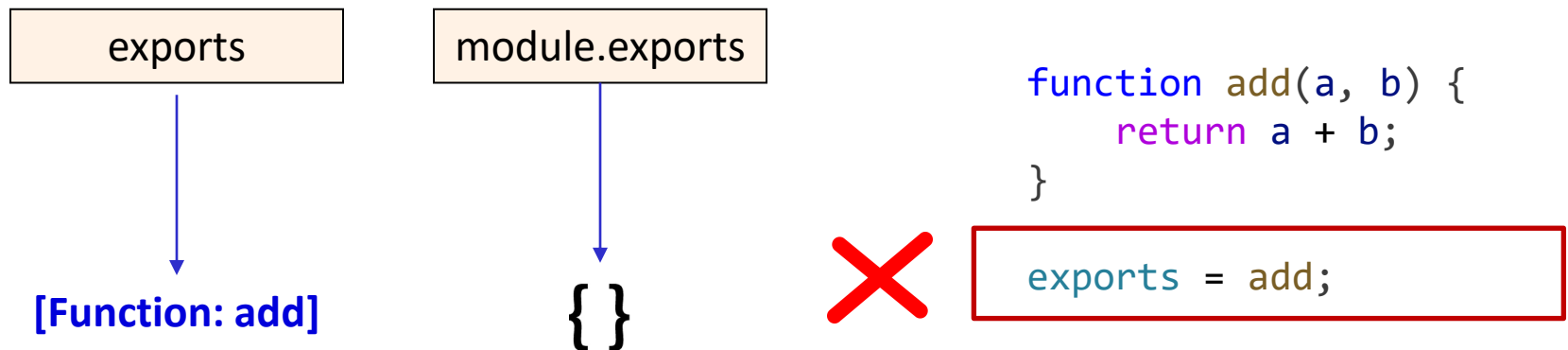
```
module.exports.add = add;
```

```
exports.add = add;
```

```
{ add: [Function: add] }
```

When we add properties to `exports`, we are actually adding properties to `module.exports` object, since `exports` points to `module.exports`.

module.exports and exports



When we assign a new object to `exports`, the reference is broken and updating `exports` no longer updates `module.exports`



- `module.exports = {aFunction, anotherFunction}`
- `module.exports = aFunction`
- `module.exports.aFunction = aFunction`
- `module.exports.renamedFunction = aFunction`

- `exports.aFunction = aFunction`
- `exports.aFunction = {aFunction}`



- `exports = {aFunction, anotherFunction}`
- `exports = aFunction`