

Optimization

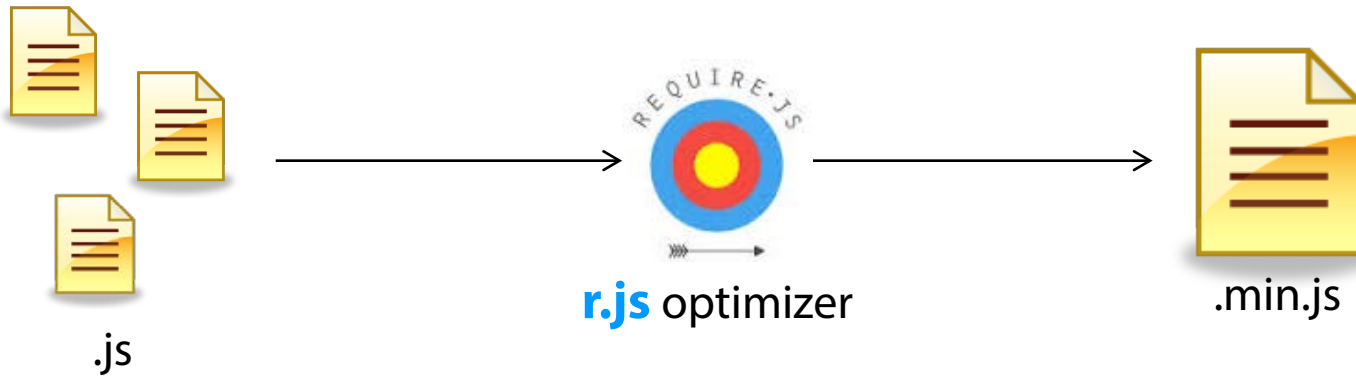
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pluralsight 
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Development

Deployment





main.js



main-optimized.min.js
main-optimized.js



tasks.js

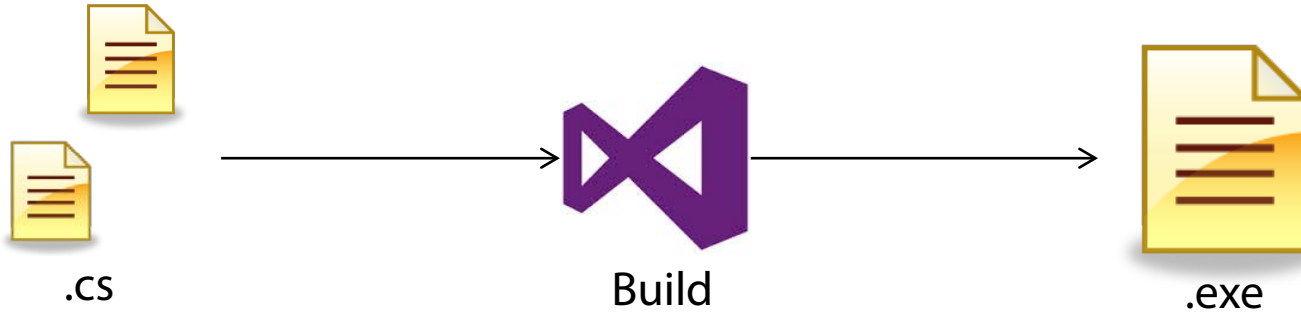


taskData.js

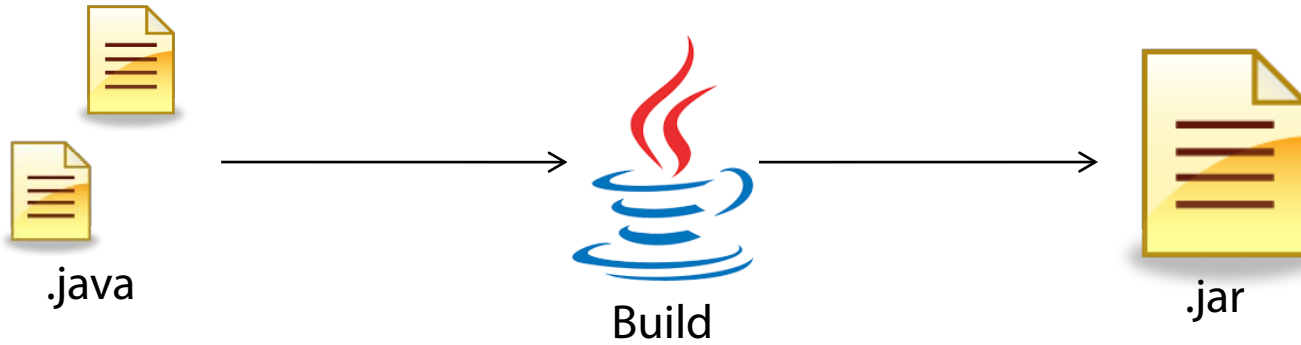


taskRenderer.js

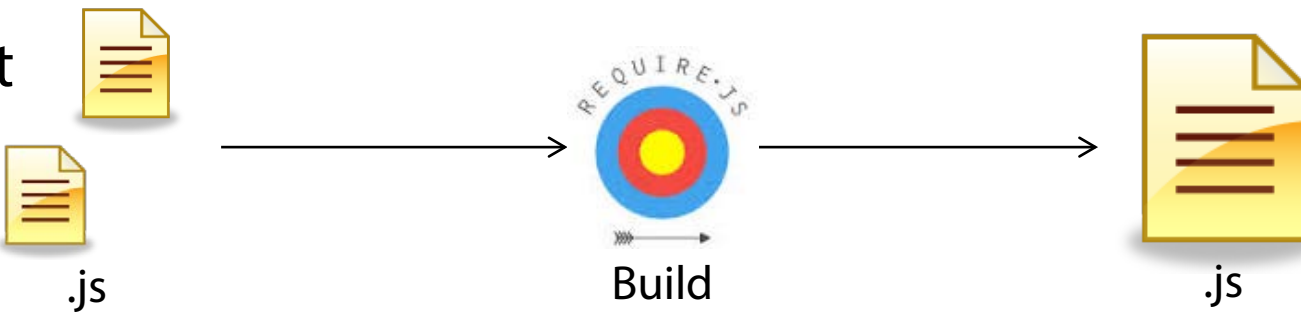
C#



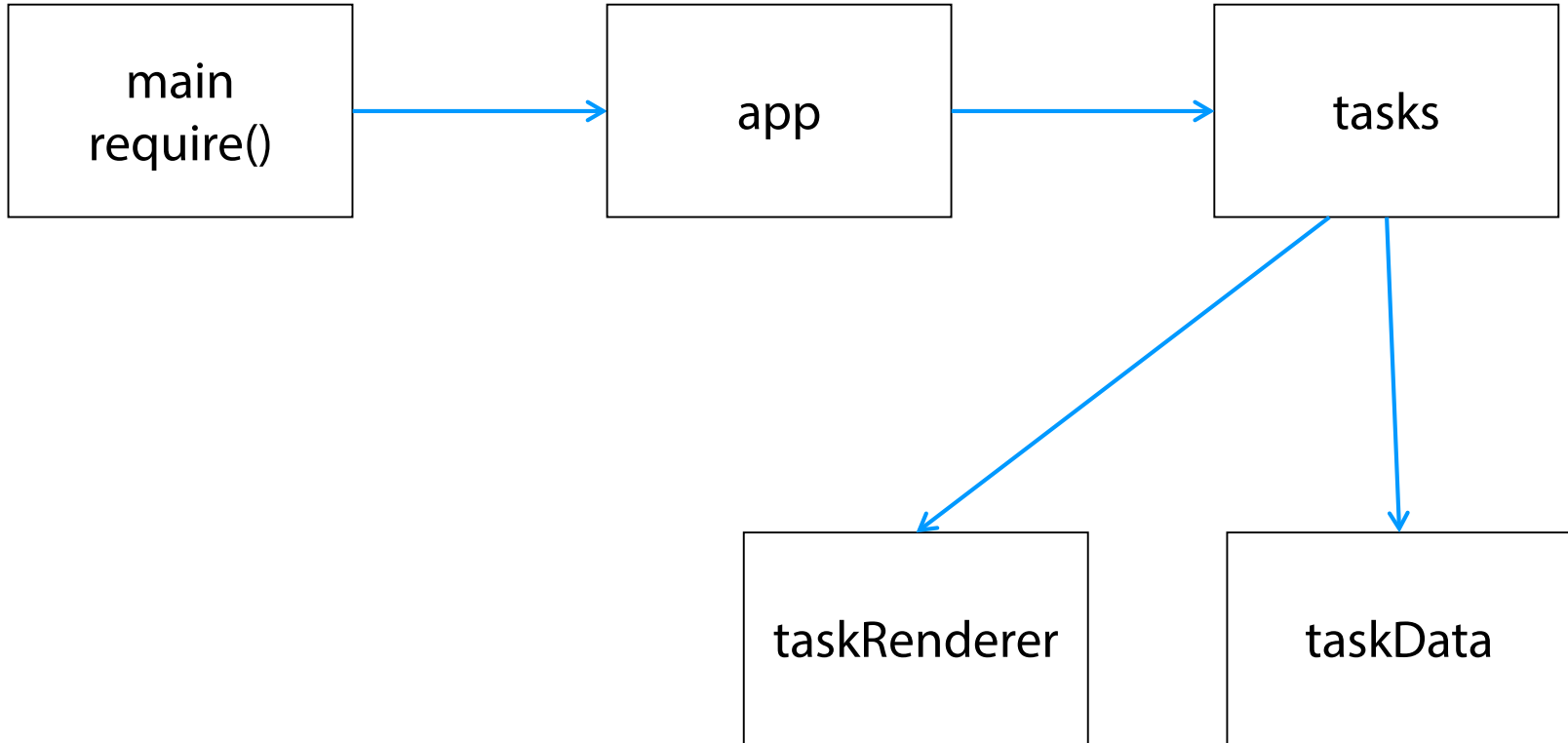
Java



JavaScript



Module Dependencies



Current **r.js** Command Line Arguments

```
node build\r.js -o  
  name=main  
  baseUrl=src/js  
  mainConfigFile=src/js/main.js  
  out=src/js/main-optimized.min.js  
  generateSourceMaps=true  
  preserveLicenseComments=false  
  optimize=uglify2
```



Build Profile
(JavaScript file)

Options to Ease Debugging

1. Use **un-optimized** files in development

Dev: `<script src="js/require.js" data-main="js/main.js"></script>`

Prod: `<script src="js/require.js" data-main="js/main-optimized.min.js"></script>`

2. Use **source maps**

Maps lines in compressed files back to their original source.

Enable using **generateSourceMaps=true** option in r.js

Summary

- The r.js optimizer allows us to have **multiple files** for development and a **single file** for release.
- The r.js optimizer runs in **Node.js**.
- The optimizer can optionally **minify** the output files.
- **Source maps** ease debugging by mapping optimized and minified code to their original source lines.
- Optimization options can be passed to r.js on the **command line** or through a **build profile** file.