

1 NPM TRAINING MODULE

npm (originally short for Node Package Manager) is a package manager for the JavaScript programming language. npm, Inc. is a subsidiary of GitHub, an American multinational corporation that provides hosting for software development and version control with the usage of Git. It is the default package manager for the JavaScript runtime environment Node.js. It consists of a command line client, also called npm, and an online database of public and paid-for private packages, called the npm registry. The registry is accessed via the client, and the available packages can be browsed and searched via the npm website.

1.1 LEARNING OBJECTIVES

- What is npm?
- Why do we need npm?
- How to install and use npm?
- What are npm commands?

1.2 RESOURCES

- 1) [Official documentation](#)
- 2) [Npm commands](#)
- 3) [Npm crash course video](#)
- 4) [Create React app using npm](#)

1.3 REFERENCE

- 1) [W3 schools documentation on npm](#)

2 YARN

Yarn is a new package manager that replaces the existing workflow for the npm client or other package managers while remaining compatible with the npm registry. It has the same feature set as existing workflows while operating faster, more securely, and more reliably

2.1 LEARNING OBJECTIVES

- What is yarn?
- Why do we need yarn?
- How to install and use yarn?
- What are yarn commands?
- Npm Vs Yarn

2.2 RESOURCES

- 1) [Official documentation](#)
- 2) [Yarn commands](#)
- 3) [Yarn crash course video](#)
- 4) [Create React app using yarn](#)

2.3 REFERENCES

- 1) Differences between npm and yarn - <https://www.geeksforgeeks.org/difference-between-npm-and-yarn/>
- 2) Evolution of new package manager (yarn) - <https://engineering.fb.com/web/yarn-a-new-package-manager-for-javascript/>
- 3) Features of yarn - <https://yarnpkg.com/features/pnp>

3 WEBPACK

Webpack is a static module bundler for modern JavaScript applications. When webpack processes your application, it internally builds a dependency graph which maps every module your project needs and generates one or more bundles.

3.1 LEARNING OBJECTIVES

- What is webpack?
- Why do we need webpack?
- How to setup webpack?
- How to use webpack with React?

3.2 RESOURCES

- 1) [Official documentation](#)
- 2) Video tutorials -
 - a) <https://www.youtube.com/watch?v=deyxl-6C2u4>
 - b) <https://www.youtube.com/watch?v=GU-2T7k9Nfl>
 - c) https://www.youtube.com/watch?v=e_oGhRHDzcc

3.3 REFERENCES

- 1) <https://www.smashingmagazine.com/2017/02/a-detailed-introduction-to-webpack/>
- 2) <https://www.freecodecamp.org/news/an-intro-to-webpack-what-it-is-and-how-to-use-it-8304ecdc3c60/>
- 3) <https://lihautan.com/what-is-module-bundler-and-how-does-it-work/>