

REACT

01 FUNDAMENTALS AND INSTALLATION





SYLLABUS

- <u>01 Fundamentals And Installation</u>
- 02 Components And Props
- 03 State
- 04 Handling Events
- 05 SetState And Lifecycle
- 06 Lists And Keys
- 07 Forms
- 08 PropTypes
- 09 Refs
- 10 React Router v4

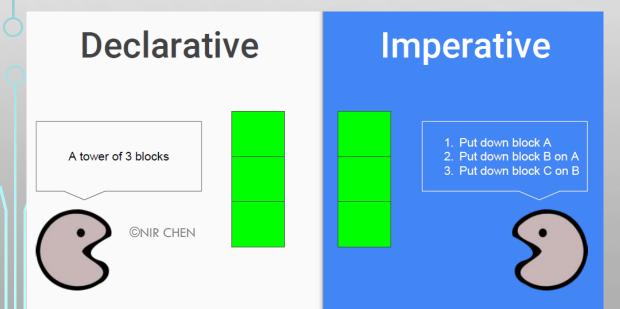


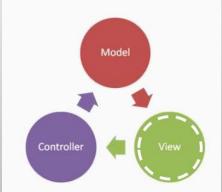
?REACT מה זה

• ספריה לפיתוח UI של צד לקוח בJS.

React

A JavaScript library for building user interfaces





- MVC מתוך •
- DECLERATIVE מתכנתים את המה רוציםלעשות? ולא את האיך משיגים את זה?

Learn once, write anywhere ?REACT מה זה



It's Java

LEARN ONCE, • WRITE ANYWHERE

– משתלב עם טכנולוגיות אחרות, רץ גם בשרת, יש גם **REACT ANTIVE**

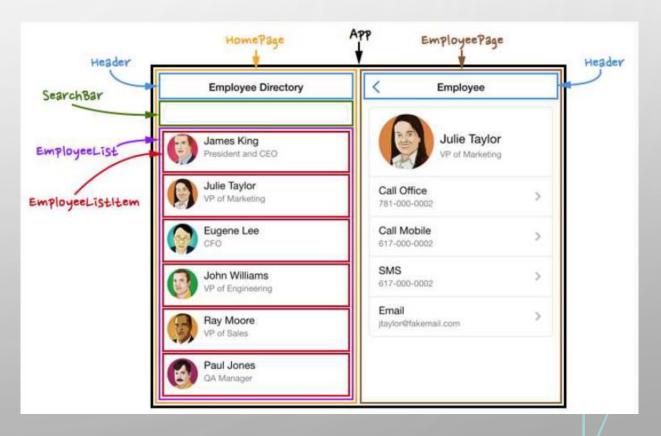








• הכל זה COMPONENT



מי משתמש?















wework

● KHANACADEMY

code cademy





angular

One framework. Mobile & desktop.

TypeScript



angular.js

AngularJS - HTML enhanced for web apps!

JavaScript



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פופולריות

react

A declarative, efficient, and flexible J interfaces.

frontend declarative



***** 80,221

¥ 15,201

react-native

A framework for building native app

■ JavaScript ★ 55,430

JavaScript



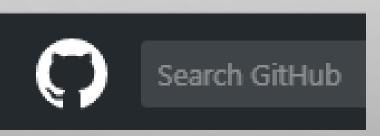
¥ 12,928

A progressive, incrementally-adoptable JavaScript framework for building UI on the web.

● JavaScript ★ 72.6k

vue

₹ 10.6k



Gitstar Ranking GitHub username Organizations Repositories

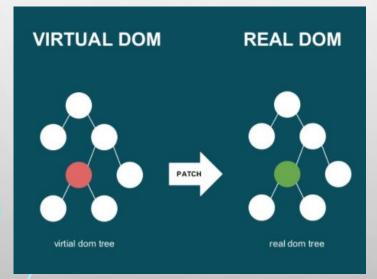
Repositories Ranking

	(<u>*</u>)	1. freeCodeCamp/freeCodeCamp	★ 291193
	В	2. twbs/bootstrap	★ 114834
	loook latior	3. EbookFoundation/free-progra	★ 92555
<	f	4. facebook/react	★ 74873
	Ť	5. tensorflow/tensorflow	★ 68969
)3	6. d3/d3	★ 67875
	3	7. getify/You-Dont-Know-JS	★ 66736
	Y	8. vuejs/vue	★ 65590
		9. sindresorhus/awesome	★ 64991
	1	10. robbyrussell/oh-my-zsh	★ 58591
	A	11. airbnb/javascript	★ 57906
	A	12. angular/angular.js	★ 56966
	C	13. github/gitignore	★ 54224
<	f	14. facebook/react-native	★ 52994
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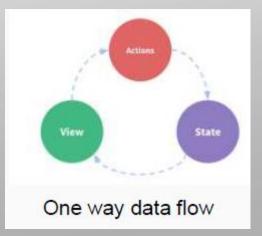
מרכיבים עיקריים





JSX •





• המידע זורם בכיוון אחד

מרכיבים עיקריים

בגלל (...AMBER ,ANGULAR) בגלל (יותר מAMBER ,ANGULAR) בגלל • סרי מהירה בצד לקוח (יותר מFPS 60 .VIRTUAL DOM •







- Changes in the state refresh the UI

 App State

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 UI

 (React)

 User uses the UI
 to update the state
- הכנסת ה "HTML" (JSX) לתוך הSJ לעומת שפות אחרות שמכניסות את ה JS לתוך ה HTML. (נראה בהמשך)
- משנים את המצב של התוכנית והיא מעדכנת אוטומטית את הו∪.



עזרים



Babel is a JavaScript compiler.

Use next generation JavaScript, today.

.JSX שתרגם מSXBEL - מתרגם שודע בם לתרגם מSSE לפן ישן יודע גם לתרגם מSSE לפן ישן כך שיעבוד בדפדפנים ישנים



npm is the package manager for JavaScript and the world's largest software registry. Discover packages of reusable code — and assemble them in powerful new ways.

Use npm to install, share, and distribute code; manage dependencies in your projects; and share & receive feedback with others.

עוזר לארגן את הפרוייקט – NPM –
 להוריד ספריות ולייצר גרסת הרצה



עזרים



At its core, webpack is a module bundler for modern JavaScript applications. When webpack processes your application, it recursively builds a dependency graph that includes every module your application needs, then packages all of those modules into one or more bundles.

שייצר קבצים להרצה כך שיהיו מאוחדים, וקטנים יותר ללא כפילויות. → WEBPACK •



Linting tools like ESLint allow developers to discover problems with their JavaScript code without executing it.

JSX -ו JSJ מעיין קומפיילר •



• סביבת העבודה שלנו תהיה



הרצה

FOR DEVELOPMENT

npx create-react-app my-app
cd my-app
npm start / npm run build

Name node_modules public src gitignore package.json README.md

FOR PRODUCTION

npx create-react-app my-app cd my-app

npm run build

©mpm=install –g serve Serve –s build



RUN ON SERVER

FOR PRODUCTION

npx create-react-app my-app cd my-app npm start

npm run build

להעתיק את ספריית BUILD לשרת

package.json

```
"name": "my-app",
"version": "0.1.0",
"private": true,
"dependencies": {
"react": "^16.0.0",
"react-dom": "^16.0.0",
"react-scripts": "1.0.17"
"scripts": {
"start": "react-scripts start",
"build": "react-scripts build",
"test": "react-scripts test --env=jsdom",
"eject": "react-scripts eject"
"homepage":
"http://ruppinmobile.ac.il.prev.../site01/build"
```

שלב ראשון לייצר את הקובץ הזה

.eslintrc.js

```
module.exports = {
  "parser": "babel-eslint",
  //"extends": "airbnb",
  "extends": ["eslint:recommended",
"plugin:react/recommended"],
   "parserOptions": {
     "ecmaFeatures": {
        "jsx": true,
        "modules": true
   "plugins": [
     "react",
     "jsx-a11y",
     "import"
};
```

ESLINT

שלב שני

npm install eslint --save-dev

npm install eslint-plugin-react --save-dev

npm install -g install-peerdeps install-peerdeps --dev eslint-config-airbnb



Linting tools like ESLint allow developers to discover problems with their JavaScript code without executing it.

BOOTSTRAP



react- מתי צריך את bootstrap

• If you just need html and css part of bootstrap, it should be fine to not use the library .But if you want use is part of bootstrap for bootstrap transitions, the library is a must

npm install --save bootstrap

index.js

import '../node_modules/bootstrap/dist/css/bootstrap.min.css';

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TRY IT YOURSELF



Welcome to React

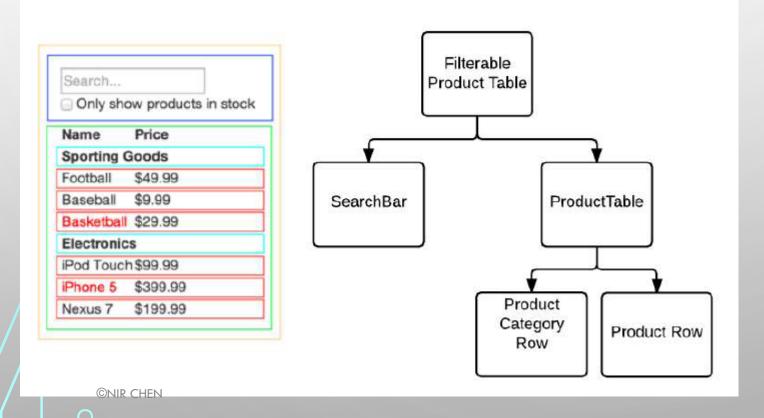
To get started, edit src/App.js and save to reload.

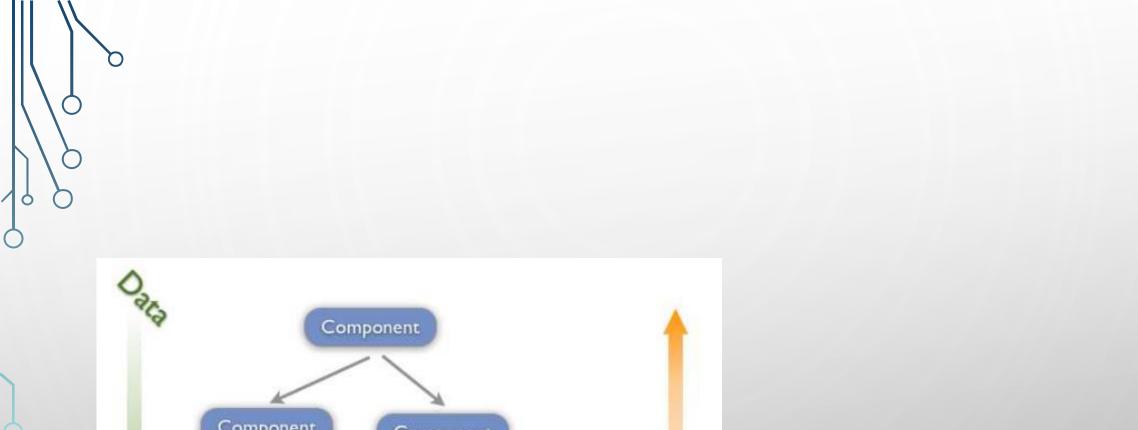
Hello, world!

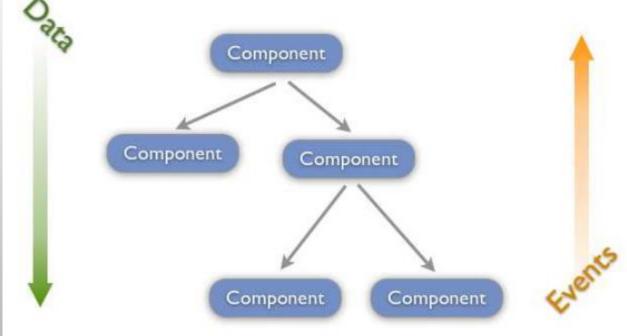
From out React Course:)

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COMPONENTS







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