Справочник базовых материалов по разработке на *JavaScript*, *React*, *React Native*

Оглавление

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# Термины и сокращения

*Тег* – метка, которой помечается ресурс, в целях его категоризации

[*Raindrop*](http://raindrop.io/) – сервис закладок, на основе которого сделан данный документ.

# Введение

Настоящий документ содержит перечень и описание базовых материалов по разработке на *JavaScript,* *React*, *React Native*. Он организован в виде сочетания глоссария со справочником перекрёстных ссылок вида “ресурс-теги”/“тег-ресурсы”, в котором ресурсы представлены соответствующими URL.

Теги, которыми помечен ресурс, обозначают существенные темы, предметы, затрагиваемые в этом ресурсе.

Необходимо отметить, что в основе документа лежит пополняемая система закладок, созданная на сервисе закладок [Raindrop](http://raindrop.io/) для пользователя с учётной записью *capcrossmail@gmail.com*.

В этом документе отражена лишь часть ресурсов, собранных для *capcross*.

Заинтересованным разработчикам предлагается использовать [Raindrop](http://raindrop.io/) для более удобного и эффективного использования справочника.

# Необходимые требования

Для просмотра видеоматериалов, размещённых на YouTube необходим соответствующий доступ.

# Значения используемых тегов

**API** – Application Programming Interface

***CRNA*** *-* [*Create React Native App*](https://github.com/react-community/create-react-native-app) - самый лёгкий способ создания приложения на *React Native*, не требующий предварительного конфигурирования (базируется на Expo);

[***Detox***](https://github.com/wix/detox) *-* средство E2E-тестирования мобильных приложений;

[***Dodds***](https://github.com/kentcdodds) - *Kent C. Dodds* - разработчик *PayPal*, специализирующийся на тестировании приложений на React, автор множества соответствующих статей и видео;

***CS50*** – код видеокурса лекций по *React Native*, прочитанных в Гарварде

***CSS*** *– CSS –* система стилей

***DevTools* –** *Chrome DevTools* – средство отладки в браузере *Chrome*

***E2E***- End-To-End – единовременное тестирование всех слоёв системы, как правило, от пользовательского уровня (имитацией действий пользователей) до уровня базы данных;

[***Enzyme***](https://github.com/airbnb/enzyme) - утилита тестирования от *Arbnb*, ориентированная на *React;*

***ES6*** - версия *ECMASript* (*JavaScript*), вышедшая в 2015 году;

***ESLint*** – средство дополнительного синтаксического контроля

[***Expo***](https://expo.io/) – популярное средство создания приложений на React Native на чистом JavaScript – без native-составляющих;

***Facebook*** *- Facebook*

***FlatList*** – компонент-список в *React Native*

***Flux*** – архитектура однонаправленного потока данных

***GitHub*** - код размещён на *github*

***HOC*** – High Ordering Component – шаблон проектирования, техника повторного использования в функциональном программировании

**HTTP** *–* HTTP

**MVC** – шаблон проектирования Model-View-Controller

***Prettier* –** средство форматирования кода в *JavaScript*

***Promises* -** удобный способ организации асинхронного кода.

***SectionList*** – компонент-секция в *React Native*

***ScrollView*** – компонент-скроллинга в *React Native*

[***Jest***](https://facebook.github.io/jest/) - средство тестирования (framework от Facebook), используемое в разработках на *JavaScript*;

[***React***](https://reactjs.org/) - JavaScript-библиотека для создания пользовательских интерфейсов, главным свойством которой является логически атомарная отрисовка экрана;

[***React Native***](https://facebook.github.io/react-native/) - средство разработки мобильных приложений на [*React*](https://reactjs.org/);

***React Navigation*** – система навигации в *React Native*

[***Redux***](https://github.com/reactjs/redux) *-* менеджер состояний - JavaScript-библиотека (от [Dan Abramov](https://github.com/gaearon) & Co), используемая при разработке приложений на *React/React Native* (и не только);

[Snack](https://snack.expo.io/) – online-сервис запуска *React Native*-компонентов на основе *Expo*

[***TypeScript***](https://www.typescriptlang.org/) - язык программирования - расширение *JavaScript* от *Microsoft* с возможностями статической типизации;

[***VS Code***](https://code.visualstudio.com/) *-* популярная среда разработки на *JavaScript* от *Microsoft*

***best practices*** - лучшие практики

**deploy** - deploy

[***egghead***](https://egghead.io/) - ресурс с видеоуроками, посвящённый разработке на *JavaScript*

***middleware*** – подсистема работы с асинхронными запросами в *Redux*

[***npm***](https://www.npmjs.com/) - менеджер пакетов для [Node.js](https://nodejs.org/en/)

**performance** - производительность

***props*** – параметры-свойства, передаваемые в *React* от родительских компонентов – к дочерним

**snapshot-тестирование**: [Тестирование при помощи снимков](https://doc.ebichu.cc/jest/docs/ru/snapshot-testing.html)

**state managers** - библиотеки, системные модули, отвечающие за управление состоянием системы/приложения

***this*** – контекст вызова функции

**web –** относящееся к web

**асинхронность –** асинхронность в *JavaScript*

**аутентификация** - аутентификация

**библиотеки** - библиотеки

**валидация –** проверка данных

**видео** – видеоматериал

**данные** - данные

**замыкания** - комбинация функции и лексического окружения, в котором эта функция была определена, базовое свойство JavaScript

**композиция** – создание нового посредством объединения элементов в единое целое

**лекции** – лекции

**модули** – модули

**основы** - ресурс содержит базовые сведения

**русский** - материал на русском языке

**сеть** – компьютерная сеть

**тестирование** - тестирование

# Ресурсы

Перечень ресурсов по возможности упорядочен – от основ – к их развитию.

[Современный учебник JavaScript](http://learn.javascript.ru/): ***JavaScript***, **основы**, **русский**

[JavaScript ES6: пишем меньше — делаем больше](https://habr.com/company/ruvds/blog/354280/): ***JavaScript***, ***ES6***, **русский** - кратко и наглядно о возможностях *JavaScript*, добавленных в *ES6*

[Шпаргалка по пакетному менеджеру NPM](https://habr.com/post/133363/): ***npm***, **русский**, **основы** -

ресурс полезен в качестве справочника по командам *npm*

[Публикация пакета в npm](https://ifmo.su/npm): ***npm***, **русский**, **основы**

[Introduction to The Beginner's Guide to ReactJS](https://egghead.io/lessons/react-introduction-to-the-beginner-s-guide-to-reactjs): ***React***, ***Dodds***, **видео**, **уроки, основы**

[When (and when not) to use Redux](https://blog.logrocket.com/when-and-when-not-to-use-redux-41807f29a7fb): **best practices**, ***Redux***, **state managers**

[Snapshot Testing](https://facebook.github.io/jest/docs/en/snapshot-testing.html): **тестирование**, **unit-тесты**, ***Jest***, **snapshot-тестирование**

[Jest Snapshot testing vs unit testing?](https://stackoverflow.com/questions/43771602/jest-snapshot-testing-vs-unit-testing/43775523#43775523): **тестирование**, **unit-тесты**, ***Jest***, **snapshot-тестирование**

[Testing React Components with Enzyme and Jest](https://egghead.io/lessons/react-course-overview-testing-react-components-with-enzyme-and-jest): ***egghead***, ***Enzyme***, **видео**, **уроки**

[React Testing Examples](https://github.com/skidding/react-testing-examples): ***github***, ***Enzyme***, **snapshot-тестирование*,* примеры**, **тестирование**

[Debugging with TypeScript, Jest, ts-jest and Visual Studio Code](https://medium.com/@mtiller/debugging-with-typescript-jest-ts-jest-and-visual-studio-code-ef9ca8644132): **тестирование**, **unit-тесты**, ***Jest***, ***TypeScrip*t**, ***VS Code***, **отладка**

[Building a React Native App using Expo and Typescript (Part 1)](https://blog.expo.io/building-a-react-native-app-using-expo-and-typescript-part-1-a81b6970bb82): ***React Native***, ***Expo***, ***TypeScript***, ***CRNA***

[Overview, JavaScript - Lecture 0 - CS50's Mobile App Development with React Native](https://www.youtube.com/watch?v=X52b-8y2Hf4) – ***React*, *JavaScript*, видео, *CS50*, замыкания, основы, лекции**

[JavaScript, ES6 - Lecture 1 - CS50's Mobile App Development with React Native](https://www.youtube.com/watch?v=3Ay2lS6tm4M&list=PLhQjrBD2T382gdfveyad09Ierl_3Jh_wR&index=2)- ***React*, *JavaScript*, видео, *CS50*, лекции, *Promises,* асинхронность, *this,* web**

[React, Props, State - Lecture 2 - CS50's Mobile App Development with React Native](https://www.youtube.com/watch?v=7O43VDOlQ_o) - ***React*, видео, *CS50*, лекции, *props*, state**

[React Native - Lecture 3 - CS50's Mobile App Development with React Native - YouTube](https://www.youtube.com/watch?v=Gk6RF5k3C2M&list=PLhQjrBD2T382gdfveyad09Ierl_3Jh_wR&index=4) - ***React*, *JavaScript*, видео, *CS50*, лекции, *Expo,* модули*, PropTypes*, web, mobile, *CSS***

[Lists, User Input - Lecture 4 - CS50's Mobile App Development with React Native](https://www.youtube.com/watch?v=-E1tQPQSAxc&list=PLhQjrBD2T382gdfveyad09Ierl_3Jh_wR&index=5) - ***React*, видео, *CS50*, лекции, *FlatList, SectionList, ScrollView***

[User Input, Debugging - Lecture 5 - CS50's Mobile App Development with React Native - YouTube](https://www.youtube.com/watch?v=sv71JMZEpYY&list=PLhQjrBD2T382gdfveyad09Ierl_3Jh_wR&index=6) - ***React*, видео, *CS50*, лекции, *DevTools, React Native,* отладка, валидация, библиотеки**

[Navigation - Lecture 6 - CS50's Mobile App Development with React Native](https://www.youtube.com/watch?v=QHorNUuEXc0&index=7&list=PLhQjrBD2T382gdfveyad09Ierl_3Jh_wR) - ***React*, видео, *CS50*, лекции*, React Native, React Navigation,* композиция, HOC**

[Data - Lecture 7 - CS50's Mobile App Development with React Native](https://www.youtube.com/watch?v=jWwOTg35COs&list=PLhQjrBD2T382gdfveyad09Ierl_3Jh_wR&index=8) - ***React*, видео, *CS50*, лекции*,* асинхронность, аутентификация, сеть, API, HTTP, данные**

[Expo Components - Lecture 8 - CS50's Mobile App Development with React Native](https://www.youtube.com/watch?v=01FuE1RnajY&list=PLhQjrBD2T382gdfveyad09Ierl_3Jh_wR&index=9) - ***React*, видео, *CS50*, лекции, API, mobile, *React Native*, *Snack***

[Redux - Lecture 9 - CS50's Mobile App Development with React Native](https://www.youtube.com/watch?v=_zT8K6R_P7I&list=PLhQjrBD2T382gdfveyad09Ierl_3Jh_wR&index=10) - ***React*, видео, *CS50*, лекции,**

**Facebook, MVC, *Flux*, *Redux*, HOC**

[Async Redux, Tools - Lecture 10 - CS50's Mobile App Development with React Native](https://www.youtube.com/watch?v=T0elp5K9lLg&list=PLhQjrBD2T382gdfveyad09Ierl_3Jh_wR&index=11) - ***React*, видео, *CS50*, лекции, *React Native*, *Redux, middleware, Prettier, ESLint, асинхронность***

[Performance - Lecture 11 - CS50's Mobile App Development with React Native](https://www.youtube.com/watch?v=39W5Llg2orM&index=12&list=PLhQjrBD2T382gdfveyad09Ierl_3Jh_wR) - ***React*, видео, *CS50*, лекции, *React Native*, mobile, performance**

[Deploying, Testing - Lecture 12 - CS50's Mobile App Development with React Native](https://www.youtube.com/watch?v=VUV00jJ45nU&index=13&list=PLhQjrBD2T382gdfveyad09Ierl_3Jh_wR) - ***React*, видео, *CS50*, лекции, *React Native,* mobile, deploy, тестирование**

# Размещение ресурсов по тегам

**API:**

[Data - Lecture 7 - CS50's Mobile App Development with React Native](https://www.youtube.com/watch?v=jWwOTg35COs&list=PLhQjrBD2T382gdfveyad09Ierl_3Jh_wR&index=8)

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***CRNA*:**

[Building a React Native App using Expo and Typescript (Part 1)](https://blog.expo.io/building-a-react-native-app-using-expo-and-typescript-part-1-a81b6970bb82)

***CS50:***

[Overview, JavaScript - Lecture 0 - CS50's Mobile App Development with React Native](https://www.youtube.com/watch?v=X52b-8y2Hf4)

[JavaScript, ES6 - Lecture 1 - CS50's Mobile App Development with React Native](https://www.youtube.com/watch?v=3Ay2lS6tm4M&list=PLhQjrBD2T382gdfveyad09Ierl_3Jh_wR&index=2)

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***CSS:***

[React Native - Lecture 3 - CS50's Mobile App Development with React Native - YouTube](https://www.youtube.com/watch?v=Gk6RF5k3C2M&list=PLhQjrBD2T382gdfveyad09Ierl_3Jh_wR&index=4)

***DevTools:***

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[***Dodds***](https://github.com/kentcdodds):

[Introduction to The Beginner's Guide to ReactJS](https://egghead.io/lessons/react-introduction-to-the-beginner-s-guide-to-reactjs)

***E2E****:*

***Enzyme***:

[Testing React Components with Enzyme and Jest](https://egghead.io/lessons/react-course-overview-testing-react-components-with-enzyme-and-jest)

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***ES6****:*

[JavaScript ES6: пишем меньше — делаем больше](https://habr.com/company/ruvds/blog/354280/)

***ESLint*:**

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***Expo***:

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***Facebook*:**

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***FlatList*:**

[Lists, User Input - Lecture 4 - CS50's Mobile App Development with React Native](https://www.youtube.com/watch?v=-E1tQPQSAxc&list=PLhQjrBD2T382gdfveyad09Ierl_3Jh_wR&index=5)

***Flux*:**

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***GitHub***:

[React Testing Examples](https://github.com/skidding/react-testing-examples)

**HOC:**

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***JavaScript***:

[Современный учебник JavaScript](http://learn.javascript.ru/)

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***Jest:***

[Debugging with TypeScript, Jest, ts-jest and Visual Studio Code](https://medium.com/@mtiller/debugging-with-typescript-jest-ts-jest-and-visual-studio-code-ef9ca8644132)

**MVC:**

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***Prettier:***

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***Promises***

[JavaScript, ES6 - Lecture 1 - CS50's Mobile App Development with React Native](https://www.youtube.com/watch?v=3Ay2lS6tm4M&list=PLhQjrBD2T382gdfveyad09Ierl_3Jh_wR&index=2)

***React***:

[Introduction to The Beginner's Guide to ReactJS](https://egghead.io/courses/the-beginner-s-guide-to-react:)

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[Expo Components - Lecture 8 - CS50's Mobile App Development with React Native](https://www.youtube.com/watch?v=01FuE1RnajY&list=PLhQjrBD2T382gdfveyad09Ierl_3Jh_wR&index=9)

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[Performance - Lecture 11 - CS50's Mobile App Development with React Native](https://www.youtube.com/watch?v=39W5Llg2orM&index=12&list=PLhQjrBD2T382gdfveyad09Ierl_3Jh_wR)

[Deploying, Testing - Lecture 12 - CS50's Mobile App Development with React Native](https://www.youtube.com/watch?v=VUV00jJ45nU&index=13&list=PLhQjrBD2T382gdfveyad09Ierl_3Jh_wR)

***React Navigation*:**

[Navigation - Lecture 6 - CS50's Mobile App Development with React Native](https://www.youtube.com/watch?v=QHorNUuEXc0&index=7&list=PLhQjrBD2T382gdfveyad09Ierl_3Jh_wR)

***Redux***:

[When (and when not) to use Redux](https://blog.logrocket.com/when-and-when-not-to-use-redux-41807f29a7fb)

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***SectionList*:**

[Lists, User Input - Lecture 4 - CS50's Mobile App Development with React Native](https://www.youtube.com/watch?v=-E1tQPQSAxc&list=PLhQjrBD2T382gdfveyad09Ierl_3Jh_wR&index=5)

***ScrollView*:**

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***Snack*:**

[Expo Components - Lecture 8 - CS50's Mobile App Development with React Native](https://www.youtube.com/watch?v=01FuE1RnajY&list=PLhQjrBD2T382gdfveyad09Ierl_3Jh_wR&index=9)

***TypeScript***:

[Debugging with TypeScript, Jest, ts-jest and Visual Studio Code](https://medium.com/@mtiller/debugging-with-typescript-jest-ts-jest-and-visual-studio-code-ef9ca8644132)

[Building a React Native App using Expo and Typescript (Part 1)](https://blog.expo.io/building-a-react-native-app-using-expo-and-typescript-part-1-a81b6970bb82)

***VS Code***:

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**best practices:**

[When (and when not) to use Redux](https://blog.logrocket.com/when-and-when-not-to-use-redux-41807f29a7fb)

**deploy**:

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[***egghead***](https://egghead.io/):

[Introduction to The Beginner's Guide to ReactJS](https://egghead.io/courses/the-beginner-s-guide-to-react:)

***GitHub***:

[React Testing Examples](https://github.com/skidding/react-testing-examples)

***middleware*:**

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**mobile***:*

[React Native - Lecture 3 - CS50's Mobile App Development with React Native - YouTube](https://www.youtube.com/watch?v=Gk6RF5k3C2M&list=PLhQjrBD2T382gdfveyad09Ierl_3Jh_wR&index=4)

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***npm****:*

[Шпаргалка по пакетному менеджеру NPM](https://habr.com/post/133363/)

**performance:**

[Performance - Lecture 11 - CS50's Mobile App Development with React Native](https://www.youtube.com/watch?v=39W5Llg2orM&index=12&list=PLhQjrBD2T382gdfveyad09Ierl_3Jh_wR)

***props***:

[React, Props, State - Lecture 2 - CS50's Mobile App Development with React Native](https://www.youtube.com/watch?v=7O43VDOlQ_o)

**snapshot-тестирование*:***

[Snapshot Testing](https://facebook.github.io/jest/docs/en/snapshot-testing.html)

[React Testing Examples](https://github.com/skidding/react-testing-examples)

**state**:

[React, Props, State - Lecture 2 - CS50's Mobile App Development with React Native](https://www.youtube.com/watch?v=7O43VDOlQ_o)

***state managers***:

[When (and when not) to use Redux](https://blog.logrocket.com/when-and-when-not-to-use-redux-41807f29a7fb)

***this***:

[JavaScript, ES6 - Lecture 1 - CS50's Mobile App Development with React Native](https://www.youtube.com/watch?v=3Ay2lS6tm4M&list=PLhQjrBD2T382gdfveyad09Ierl_3Jh_wR&index=2)

**unit-тесты**:

[Debugging with TypeScript, Jest, ts-jest and Visual Studio Code](https://medium.com/@mtiller/debugging-with-typescript-jest-ts-jest-and-visual-studio-code-ef9ca8644132)

**web**:

[JavaScript, ES6 - Lecture 1 - CS50's Mobile App Development with React Native](https://www.youtube.com/watch?v=3Ay2lS6tm4M&list=PLhQjrBD2T382gdfveyad09Ierl_3Jh_wR&index=2)

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[JavaScript, ES6 - Lecture 1 - CS50's Mobile App Development with React Native](https://www.youtube.com/watch?v=3Ay2lS6tm4M&list=PLhQjrBD2T382gdfveyad09Ierl_3Jh_wR&index=2)

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**аутентификация:**

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**библиотеки:**

[User Input, Debugging - Lecture 5 - CS50's Mobile App Development with React Native - YouTube](https://www.youtube.com/watch?v=sv71JMZEpYY&list=PLhQjrBD2T382gdfveyad09Ierl_3Jh_wR&index=6)

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**основы**:

[Современный учебник JavaScript](http://learn.javascript.ru/)

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**примеры**:

[React Testing Examples](https://github.com/skidding/react-testing-examples)

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[Современный учебник JavaScript](http://learn.javascript.ru/)

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**уроки**:

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