

# Prop-aganda: An Introduction to React

## Description

Looking to level up your front-end skills? Or have you seen “React” mentioned on one too many job postings? This is your chance to get your feet wet with the framework everyone can’t stop raving about. In this hands-on introduction, you’ll have an opportunity to build a first site leveraging React. You’ll also get an understanding of why JavaScript frameworks are so popular these days, and be able to use frontend technology for shipping *fast* at this year’s edition of Hack The North!

## Learning Outcomes

After this workshop, you will be able to:

- Understand the motivations behind frontend frameworks in the modern web
- Develop and deploy simple websites in React
- Learn core React competencies, such as adding a form or making an API call
- Use tools in the ecosystem, such as linters, formatters, and other frameworks

## Prerequisite Knowledge

Workshop participants will benefit from exposure to previous programming languages, especially HTML and JavaScript (but it’s not a *firm* requirement to at least get started).

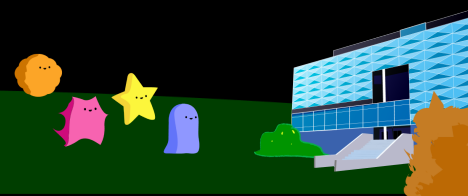
## Pre-Workshop Checklist

Before the workshop, please make sure you complete the following items:

- Ensure you have a laptop (and charger) capable of development in-browser
- Create an account on [repl.it](https://repl.it)

## Technical Jargon and Definitions

- **React:** a frontend JavaScript framework that is declarative and allows reusability
- **JavaScript:** a programming language that is used in browsers for interactivity
- **Framework:** a ‘scaffolding’ for code that abstracts various responsibilities
- **Frontend:** what the user sees in an application; as opposed to “backend” code



- **API:** an “application programming interface”; a way for two programs to interact
- **Linter:** a tool for code that enforces certain constraints (e.g, disallowing methods)
- **Formatter:** another tool for code that enforces code format (e.g., whitespace)

## Timeline (60 minutes)

Time	Module	Description
10min.	Introduction + Motivation	Introduction to the workshop, what we'll learn and build, and motivating why React matters
20min.	Session 1: Baby Steps	Step-by-step programming of a first React site; introduction to JSX, state, props
5min.	Recap + Break	Recap of session 1 and a quick stretch break!
20min	Session 2: Hackathon Essentials	Step-by-step programming of a first React site... continued! We'll add an API call, a <i>simple</i> form, and explore deployment options
5min.	Recap + Q&A	Recap of session 2 and wrap-up with time for questions

## Workshop Lead Contact

Michael DeMarco

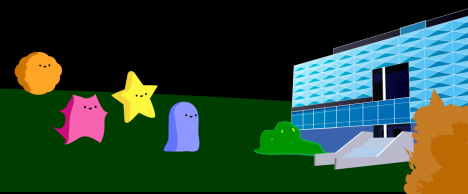
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## Additional Resources

### Hack the North Resources

#### [Hack the North 2022 Event Schedule](#)

Check this out to stay up-to-date on activities, workshops, and other key happenings this weekend.

### Workshop-Specific Resources

#### [reactjs.org](https://reactjs.org)

This is the official React documentation. They have an excellent tutorial that I highly recommend you walk-through to continue your learning and reinforce concepts from the workshop.

#### [React in an hour or your money back \(Hack The North 2021\)](#)

The introduction to React from 2021 is fantastic; check it out to round out your understanding on what is actually making React tick under-the-hood.

#### [Intro to React and Hooks \(Hack The North 2020\)](#)

The introduction to React from 2020 is also very excellent!

#### [Frontend Masters](#)

Want to go further? Frontend Masters is a one-stop-shop resource for learning web development. If you're a student, you're eligible for a FREE 6-month subscription via the GitHub Student Developer Pack. (There's also tons of great content on YouTube!)

#### [repl.it](https://repl.it)

This is an awesome, hassle-free resource for developing your project. Instead of trying to develop locally (at least initially), consider developing and deploying your project entirely from the browser.

