

# Bundlers & RSC

## A Tale of Two Runtimes

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**Production-ready code — 404**

# Entry — Extra — Elsewhere

It helps if you know:

- JavaScript
- Basics of React Components

You feel right at home with:

- HTTP Node.js Servers
- Developed Web-App before

Not our focus today:

- RSCs from scratch
- Bundler-specific implementations
- Comprehensive Bundler logics

# Talk Structure

## Presentation — Code — Q&A

1. Bundler - Dependency Resolution Demo (*no deps*)
2. React Server Components from a Node Server (*no deps again!*)
3. Optimise the RSC Implementation
4. How Parcel does it (*learn from Pros*)
5. QnA (*discussion really*)

**Bundlers? Let's unpack that.**

# Bundler Cafe

Cafe serving Cappuccino and Black Coffee

- Menu:
  - Black Coffee
    - Espresso
  - Cappuccino
    - Espresso
    - Milk
    - Sugar

# Bundler

## Identify blocks + Order them

1. Identify Entry points:
  - i.e. all code present in /src
2. Process Dependency Graphs:
  - For each file, identify the complete list of dependencies (including nested)
3. Generate manifest.json
  - Add the dependency graph in a file to perform look ups later

# Cafe Stonks!

Time to go on the web!



# React Components on the Server

# Resources Finite

Feature to add conditionally display items on the menu

**Use Bundlers, not more code!**

# Parcel Implementation

How the big boys do

# References

We stand on the shoulders of Giants

- [1]: Ben Holmes YouTube Video: **React Server Components From Scratch**
- [2]: Dan Abramov Blog: **Why Does RSC Integrate with a Bundler?**
- [3]: Christoph Nakazawa Blog: **Building a JavaScript Bundler**
- [4]: Parcel Documentation: **RSCs using Parcel**

**Thank you**  
for indulging us



The code is available here