

The background of the image is a solid blue gradient, transitioning from a darker teal at the top to a lighter blue at the bottom. Overlaid on this background is a complex network of thin, light blue lines connecting various circular nodes. These nodes are also light blue and vary in size. The network is distributed across the entire frame, with some denser clusters and some more sparse areas, creating a sense of interconnectedness and data flow.

PARALLEL DATA PROCESSING

Concurrency is hard



We had an engineer at Mozilla who decided to use a thread sanitiser tool to look for data races [in our C++ codebase] ... and he found that in every case where Firefox used threads, there were data races. Not most cases - every single case.

- Jim Blandy

CoRecursive podcast: Rust and bitter C++ developers

Concurrency issues? Use immutable data structure



1.



2.

Plan

- Implement a parallel collection
- Analyse a large dataset of global temperatures by cities
- Learn Scala features:
 - For loops
 - Recursions
 - Enumerations
 - Future