

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-colored lines connecting various circular nodes. These nodes and lines are more densely packed in the upper and lower portions of the image, creating a web-like structure that suggests data connectivity or a network topology. The central text is positioned within the lighter blue area, providing high contrast.

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