

CLIENT

SERVER

Worker Global Scope

XHR NodIO

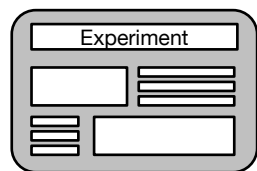
Web Page Scope

JQuery chart.js DOM

nodejs Process

express winston NodIO

2 User Visits Site



GET index.html

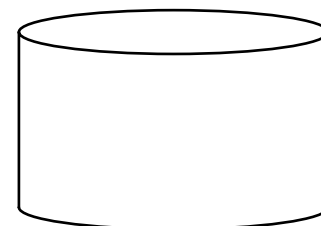
3 Loads Worker Script
Creates Worker Instance
Assigns new UUID
Message: Start

GET worker.js



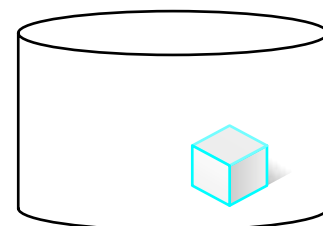
worker.js

1 Experiment Sequence Initialised
Chromosome Array Reset



4 Creates Population
Runs n generations

PUT: Best individual

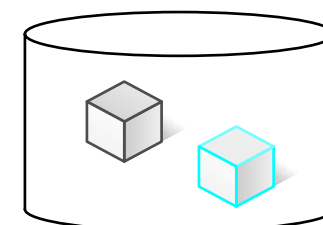


IF NOT GLOBAL BEST:

GET Random

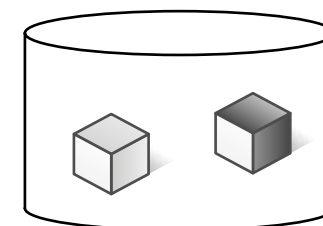
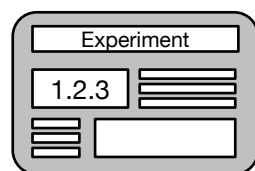


Message: IterationData



REPEAT

5 Updates DOM
With new data

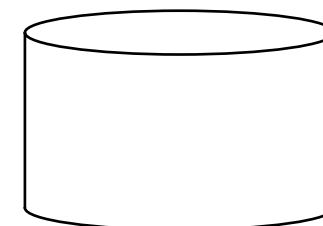


ELSE:

PUT: Best individual

Message: Finished

6 Experiment Sequence Incremented
Chromosome Array Reset
Start New Experiment



7 Reset Worker Instance
Assign new UUID
Starts Again in M seconds

Message: Start



worker.js