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# Creating a Sender/Receiver HTTP Server

DIETMAR KÜHL



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# Objective

- Create a basic HTTP server.
- Allow a single-threaded server handling multiple clients.
- Use the sender/receiver asynchronous framework.
- Use a minimalistic sender/receiver networking interface

# Basic Design

- `main()` runs an event loop for network and timer events.
  - It uses an `async_scope` for outstanding work.
- Initial work consist of accepting incoming client connections.
- Each client processes requests until an error is received.



# Beman Project



Implement proposals according to the spec

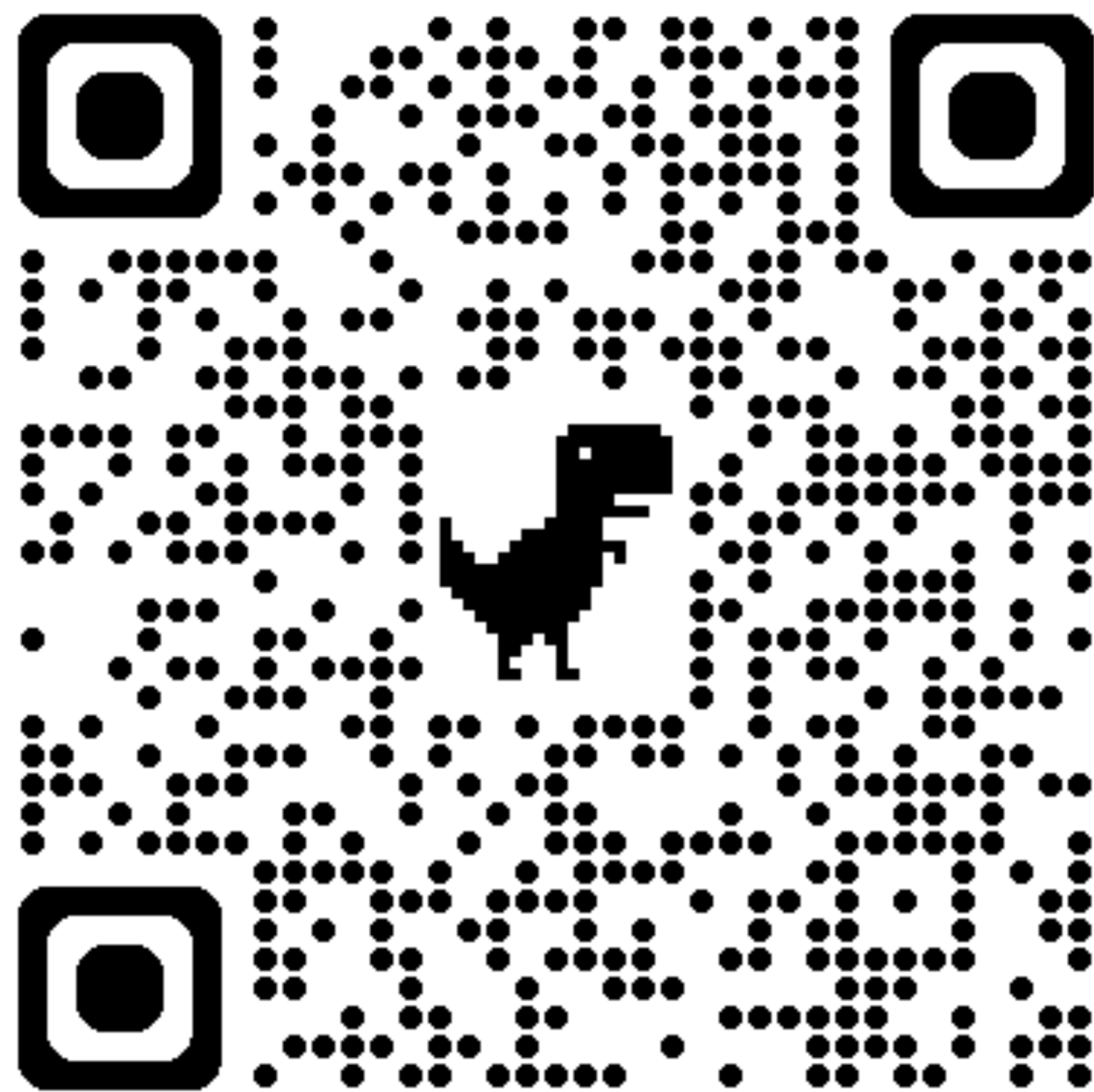
<https://github.com/beman-project/execution26>

<https://github.com/beman-project/net29>


(implementation is still in progress/incomplete)











# Show Time!

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# Resources

- std::execution (sender/receiver): <http://wg21.link/p2300>
- <https://github.com/NVIDIA/stdexec.git>
- <https://github.com/beman-project/execution26>
- Sender/receiver networking: <http://wg21.link/p2762>
- Implementation: <https://github.com/beman-project/net29>
- Async scope: <http://wg21.link/p3149>