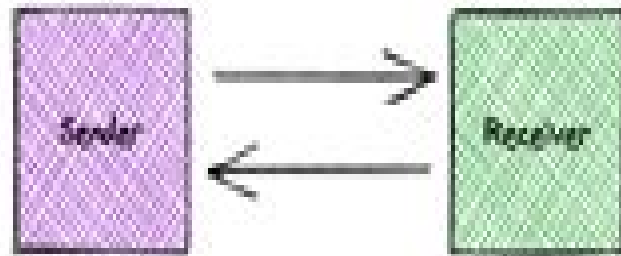


Sync vs Async Communication

Request and wait for a response
Fire and forget with messages/events

@lorey/23

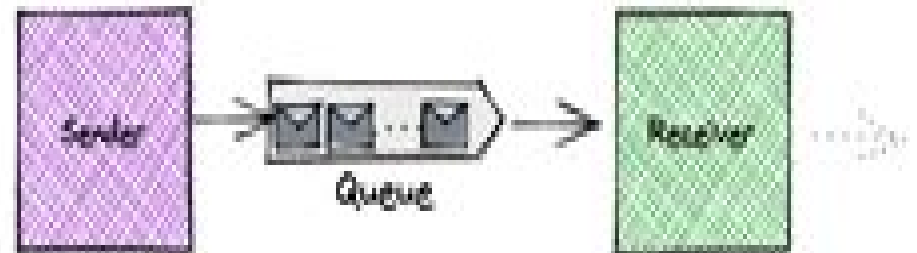
Synchronous



Request-response model

Send a request and wait for some response
Example: API requests

Asynchronous

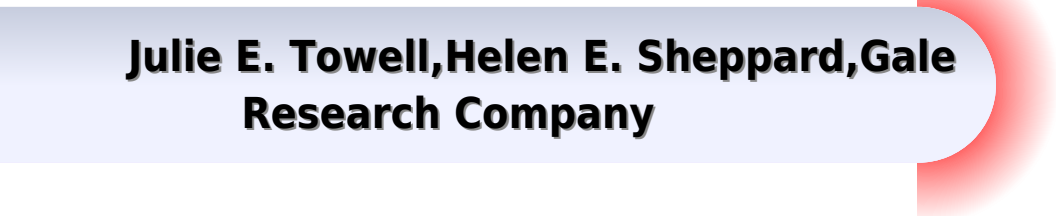


Fire and Forget model

Send message/event and forget
Example: Event Driven Architecture

Advanced Async Communication

**Julie E. Towell, Helen E. Sheppard, Gale
Research Company**



Advanced Async Communication:

Recent Advances in the Message Passing Interface Claudia Blaas-Schenner, Christoph Niethammer, Tobias Haas, 2024-09-24 This volume LNCS constitutes the refereed proceedings of 31st European MPI Users Group Meeting EuroMPI 2024 held in Perth WA Australia during September 25 27 2024 The 8 full papers presented here were carefully reviewed and selected from 19 submissions These papers have been categorized under the following topical sections Compile time Correctness checks and optimization Limitations and Extensions for GPGPUs in MPI Improvements for MPI and MPI Ecosystem

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