

Presentation #4

MASTERING STREAMS IN NODE JS

Github Organization

CREATED BY

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Agenda

1. Introduction to Streams

- Definition of Streams in Node.js
- Types of Streams: Readable, Writable, Duplex, and Transform
- Importance of Streams in handling large amounts of data efficiently

2. Understanding Streams

- How Streams Work
- Buffering and Flowing Modes
- Event-driven architecture of Streams

3. Readable Streams

- Creating a Readable Stream
- Handling 'data', 'end', and 'error' events
- Practical Example: Reading from a file

4. Writable Streams

- Creating a Writable Stream
- Writing data using 'write' method
- 'finish' and 'error' events
- Practical Example: Writing to a file

5. Duplex and Transform Streams

- Understanding Duplex Streams
- Creating and using Transform Streams
- Practical Example: Transforming data on-the-fly

6. Implementing Backpressure

- What is Backpressure?
- Handling Backpressure in Node.js Streams
- Example scenarios demonstrating backpressure

7. Piping Streams

- The concept of Piping
- Using 'pipe' method to connect streams
- Chaining multiple streams
- Practical Example: Piping streams for file transfer

8. Error Handling in Streams

- Common errors in Stream handling
- Best practices for robust error handling

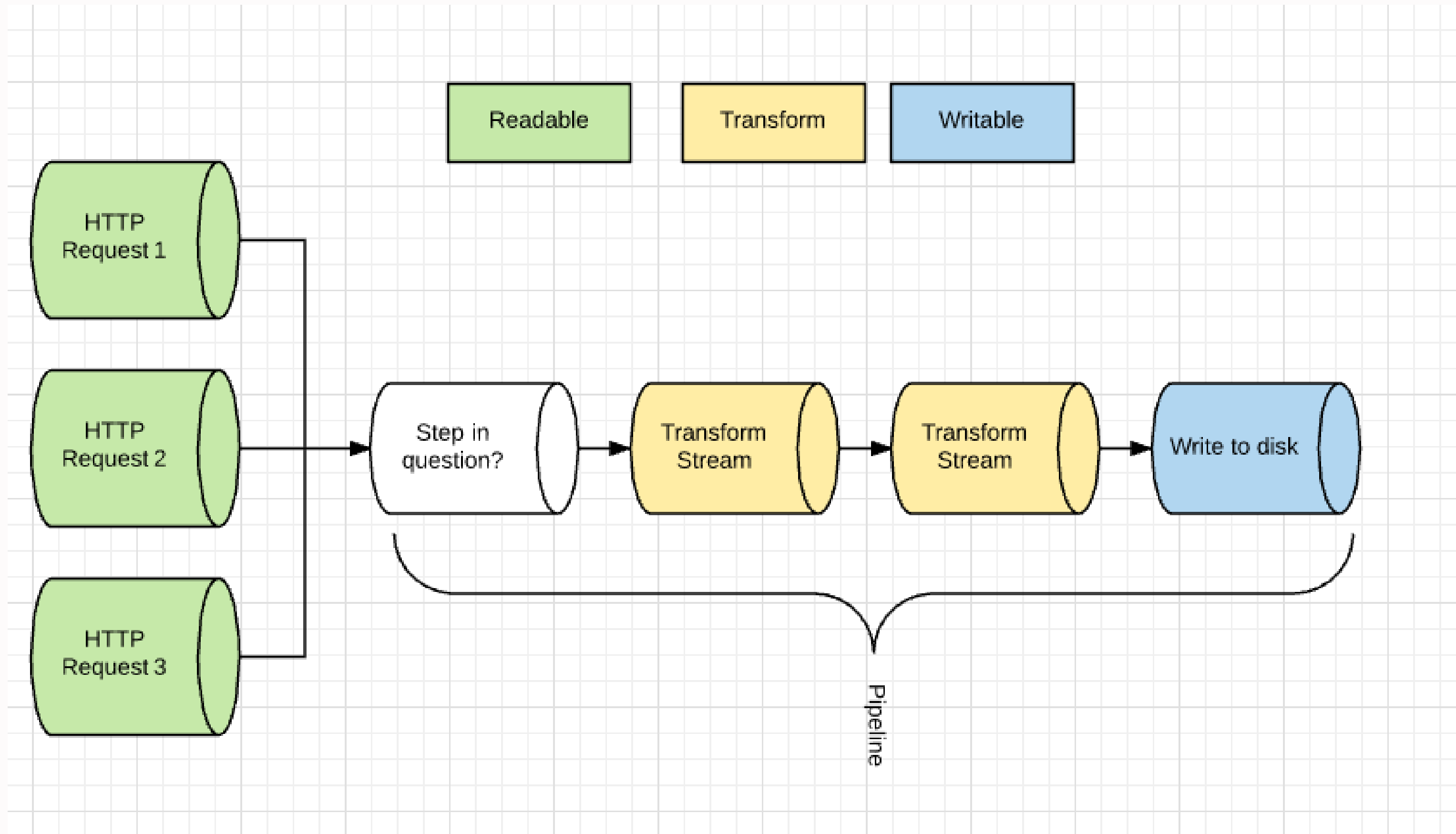
9. Advanced Topics

- Stream Implementations in popular Node.js modules
- Custom Streams: Creating your own Streams

10. Conclusion and Q&A

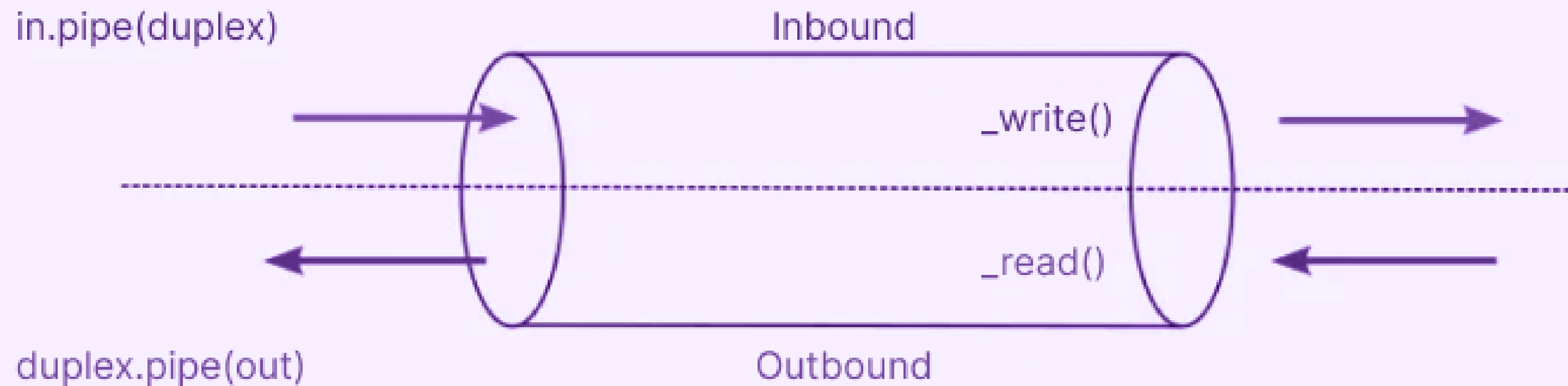
- Recap of key points
- Open floor for questions







Duplex Stream



Practical Work