



JONAS.IO
SCHMEDTMANN

NODE.JS, EXPRESS & MONGODB

THE COMPLETE BOOTCAMP



@JONASSCHMEDTMAN

SECTION

HOW NODE.JS WORKS: A LOOK BEHIND
THE SCENES

LECTURE

INTRODUCTION TO STREAMS

WHAT ARE STREAMS?

STREAMS

Used to process (read and write) data piece by piece (chunks), without completing the whole read or write operation, and therefore without keeping all the data in memory.

NETFLIX **You**Tube

- 👉 Perfect for handling large volumes of data, for example videos;
- 👉 More efficient data processing in terms of memory (no need to keep all data in memory) and time (we don't have to wait until all the data is available).

NODE.JS STREAMS FUNDAMENTALS

👉 Streams are instances of the EventEmitter class!

DESCRIPTION



EXAMPLE



IMPORTANT EVENTS



IMPORTANT FUNCTIONS



READABLE STREAMS

Streams from which we can read (consume) data

- 👉 http requests
- 👉 fs read streams

emitted when there is a new piece of data to consume

- 👉 data
- 👉 end

emitted when no more data to consume

allow us to put 2 streams together

- 👉 pipe()
- 👉 read()

WRITABLE STREAMS

Streams to which we can write data

- 👉 http responses
- 👉 fs write streams

- 👉 drain
- 👉 finish

- 👉 write()
- 👉 end()

DUPLEX STREAMS

Streams that are both readable and writable

- 👉 net web socket

CONSUME STREAMS

TRANSFORM STREAMS

Duplex streams that transform data as it is written or read

- 👉 zlib Gzip creation