

Reading and Writing Streams



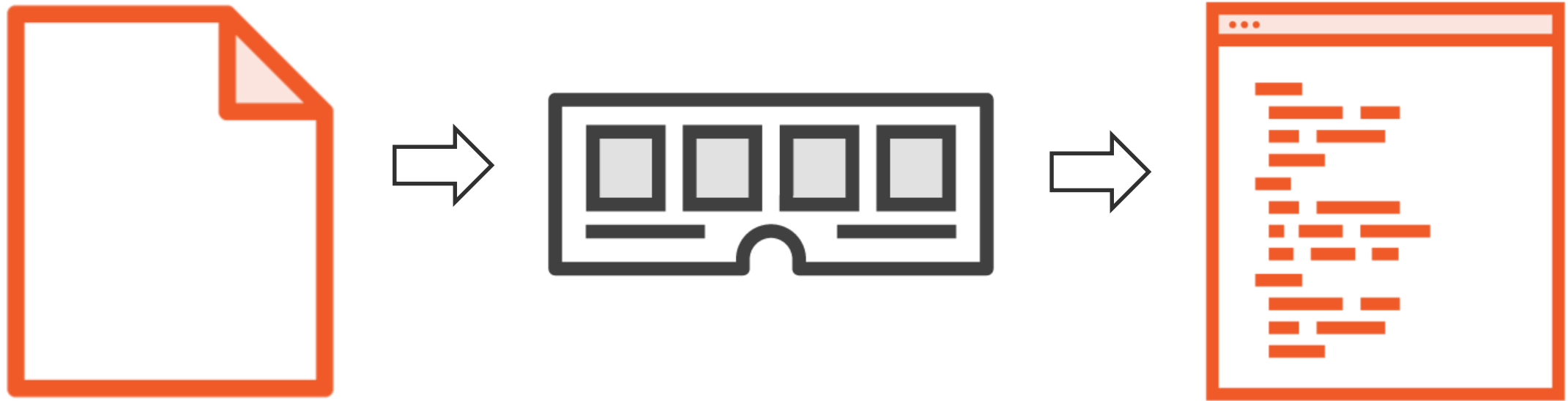
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SOLUTION ARCHITECT

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What Causes Slow Read Times?



Reading Data from a Stream



Pausing a Stream



Writing to a Stream



Write Stream Options

Flags

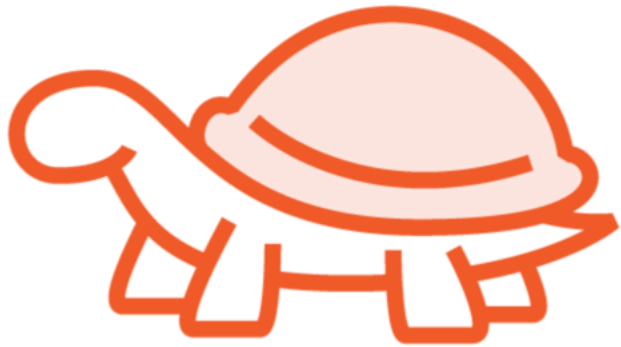
Encoding



Log Uses a
Stream

console.js

```
console.log = function (d) {  
    process.stdout.write(d + '\n');  
};
```



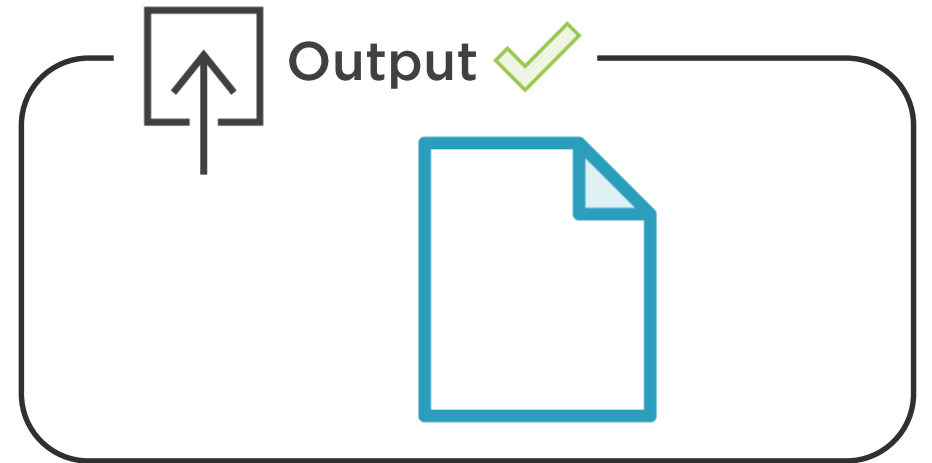
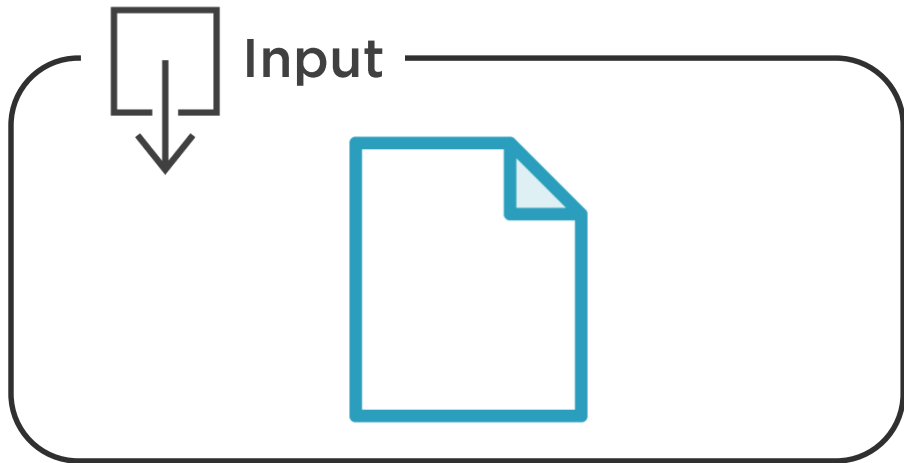
What happens when the output stream is slower than the input stream?



Handling Mismatched Streams



Current Setup



Output is Slower than Input



Back Pressure

A backup of data, caused by streams being unable to process data before the next batch arrives.





Application memory grows too big





How does the pipe command help?



input

```
.pipe(compress)  
.pipe(createWriteStream("temp.zip"))
```

Pipes Are Chainable



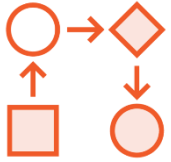
Summary



What We Covered



Reading a file



Managing a file



Writing to a file



Handling streams



Thank you

@taylor

