Analyzing CSV Text Files Using the Stream API

José Paumard

PHD, JAVA CHAMPION, JAVA ROCK STAR

@JosePaumard https://github.com/JosePaumard

Agenda

Let us see some real code in action!

What is a CSV file?

How can you analyze it using the Stream API and a BufferedReader?

Case study, so mostly live coding

Creating a CSV File

A **CSV** file can be created by **Excel**

It is **text** file, structured **line by line**

Each line has **fields** with a **separator**

Mary	32	New York
James	45	Washington
Patricia	36	Chicago

→

```
Mary;32;New York
James;45;Washington
Patricia;36;Chicago
```

Each line has three fields:

- a first name

- an age

- an address

Demo

Let us write some code!

You will see how to analyze this CSV file

Using a buffered reader and
the Stream API

Module Wrap Up

What did you learn?

How to leverage the Stream API

To analyze a CSV file with a map / filter reduce point of view

Let us see how you can move files on a file system