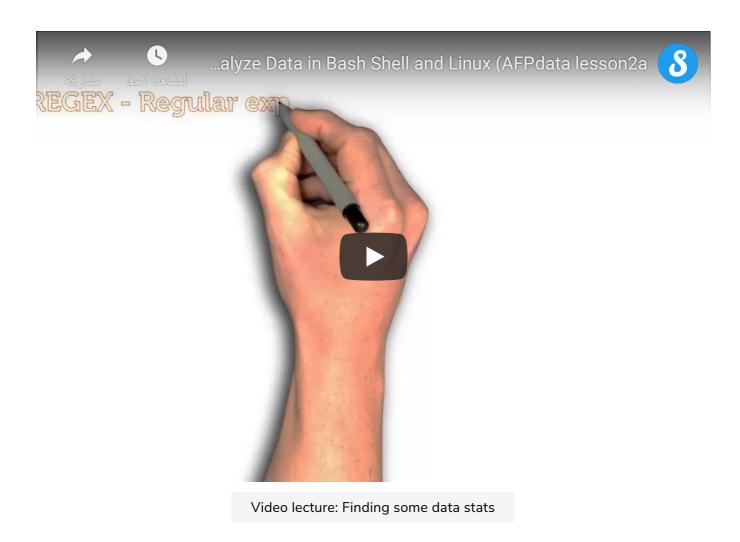
Row and Columns Statistics (sed, wc, head, cat)

WE'LL COVER THE FOLLOWING

- The hard way
- The easy way
- Do you want to know more?

Now we want to get some some statistics. Let's first find the total number of columns in the file. There are two ways to do this, let's first check the hard way:

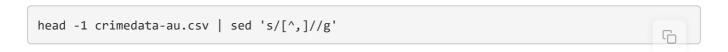


Count columns:

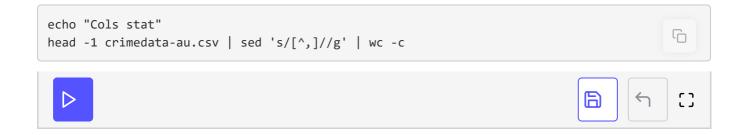
Step 1. First get only the first row using head command:



Step 2. Next use sed to remove everything except commas. To do this, we use the regex (regular expression) pattern [^,], See the appendix for more details on the regex.



Step 3. All what has left is to simply use we command to count number of characters (commas).



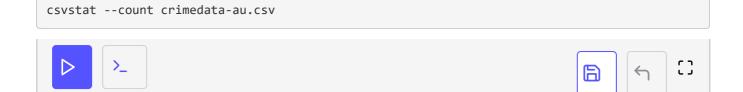
Count rows:

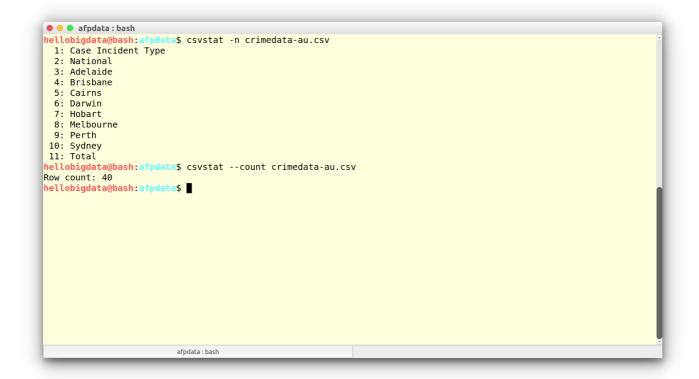
Now, let's find the total number of rows in the file well:



The easy way

As the previous chapter, we could also use the **csvkit** 's command **csvstat** to get the same stats, but with much simpler way:





Use 'csvstat' to find #rows and #cols.

Note that the csvstat is smarter that wc -1 as it omitted the titles line and counted only the data rows!

Do you want to know more?

echo "Rows stat:"

