

# Data Cleaning and Exploration Using Csvkit: Takeaways



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## Syntax

- Installing CSVkit:

```
sudo pip install csvkit
```

- Consolidating rows from multiple CSV files into one new file:

```
csvstack file1.csv file2.csv file3.csv > final.csv
```

- Adding a new column:

```
csvstack -n origin file1.csv file2.csv file3.csv > final.csv
```

- Specifying a grouping value for each filename:

```
csvstack -g 1,2,3 file1.csv file2.csv file3.csv > final.csv
```

- Returning standard input in a pretty formatted table representation:

```
head -10 final.csv | csvlook
```

- Displaying all column names along with a unique integer identifier:

```
csvcut -n Combined_hud.csv
```

- Displaying the first five values of a specific column:

```
csvcut -c 1 Combined_hud.csv | head -5
```

- Calculating summary statistics for a column:

```
csvcut -c 2 Combined_hud.csv | csvstat
```

- Calculating the mean value for all columns:

```
csvstat --mean Combined_hud.csv
```

- Finding all rows in a column that match a specific pattern:

```
csvgrep -c 2 -m -9 Combined_hud.csv
```

- Selecting rows that do not match a specific pattern:

```
csvgrep -c 2 -m -9 -i Combined_hud.csv
```

## Concepts

- **csvkit** supercharges your workflow by adding command line tools specifically for working with **CSV** files.
- **csvstack** stacks rows from multiple CSV files.
- **csvlook** renders CSV in pretty table format.
- **csvcut** selects specific columns from a CSV file.
- **csvstat** calculates descriptive statistics for some or all columns.
- **csvgrep** filters tabular data using specific criteria.

## Resources

- [CSVkit documentation](#)
- [Working with CSVkit](#)



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