VisiData
PyLadies Dublin
Feb 2023
Michael Twomey

Who am I?

Michael Twomey

Senior Cloud Architect at fourTheorem

I help clients with AWS and Python development

I've been working with messy data for 20+ years
Messy data isn't just for Data Scientists 😆

I'm an unashamed UNIX user

I live in the terminal (most of the time)

I like Terminal based applications

I frequently have to deal with random data

What is VisiData?

VISIDATA

Data exploration at your fingertips.

VisiData is an interactive multitool for tabular data. It combines the clarity of a spreadsheet, the efficiency of the terminal, and the power of Python, into a lightweight utility which can handle millions of rows with ease.

Install →   Tutorial

name	<county	job_title	grade #	base_salary $	aw>
ALVAREZ,JUAN M	FRESNO	GENERAL EDUCATION ...	12	68,809.00	750
BOYD,CLAUDE A	DISTRICT OF COLUMB...	OFC AUTOMATION CLE...	4	31,471.00	0
BRITT,ROBERT E	DISTRICT OF COLUMB...	MISCELLANEOUS CLER...	5	34,075.00	0
CASTRO,JESSICA	DISTRICT OF COLUMB...	ADMIN AND OFFICE S...	7	42,209.00	750
CHASTANG,LINDA EAR...	DISTRICT OF COLUMB...	MISCELLANEOUS ADMI...	14	136,771.00	0
CHAVEZ,CHRISTINE	DISTRICT OF COLUMB...	MISCELLANEOUS ADMI...	13	89,033.00	0
CLIFFORD,CAROL L	DISTRICT OF COLUMB...	MISCELLANEOUS ADMI...	0	129,394.00	0
CORTEZ,SANDRA A	DISTRICT OF COLUMB...	GENERAL EDUCATION ...	13	94,969.00	0
DE LA GARZA,RUBY S	HIDALGO	GENERAL EDUCATION ...	12	68,809.00	750
DIAZ,VLADIMIR A	MIAMI-DADE	GENERAL EDUCATION ...	12	80,085.00	11...
DOUGLAS,WALTER W	LEXINGTON	MISCELLANEOUS ADMI...	14	125,695.00	0
FLORES,MARILOU	DISTRICT OF COLUMB...	MISCELLANEOUS ADMI...	12	87,350.00	0
GARDNER,KURT J	MADISON	MISCELLANEOUS ADMI...	13	97,015.00	0
GOLDBERG,MARIA	DISTRICT OF COLUMB...	MISCELLANEOUS ADMI...	15	152,635.00	20...
GONZALEZ,ROBERTO JR	IMPERIAL	GENERAL EDUCATION ...	12	82,570.00	11...
GUY,DWIGHT N	LOGAN	MISCELLANEOUS ADMI...	13	95,459.00	750
HARTSFIELD,LARRY D	GUILFORD	MISCELLANEOUS ADMI...	13	92,732.00	12...
HODGE,HORACE D	WALLER	MISCELLANEOUS ADMI...	12	∅	750
JAMES,KRISTEN	DISTRICT OF COLUMB...	MISCELLANEOUS CLER...	4	30,456.00	0
JOHNSON,ALLISON C	EAST BATON ROUGE	MISCELLANEOUS ADMI...	13	87,278.00	750
KOZISKI,STEPHANIE ...	DISTRICT OF COLUMB...	MANAGEMENT AND PRO...	13	109,807.00	14...
MARTIN,KARLA A	DISTRICT OF COLUMB...	MISCELLANEOUS ADMI...	14	105,211.00	21...
MC LAREN,ANTONIO A	PETERSBURG	MISCELLANEOUS ADMI...	13	91,826.00	12...
MILLER,PIA M	DISTRICT OF COLUMB...	GENERAL BUSINESS A...	12	87,350.00	0

FederalEmployeeSalaries-2012| #   1350593 rows

Is VisiData for You?

```
pip install visidata
vd myfile.csv
```

```
pipx run visidata
```

Demo Time!

Titanic Dataset

The Complete
Titanic
Dataset

https://bit.ly/kaggle-
titantic3

```
pip install xlrd
vd titanic3.xls
```

`shift+f` to get some stats

`%` to make a column a number

`!` to flag a primary column

`.` to plot a graph

`=` for a new column using python

Irish Cars

Beep Beep

https://stats.beepbeep.ie

`d` to delete rows

`^` to edit a column header

`g^` to set all empty headers to current row

`+` then `sum` to set sum on totals

`shift+f` to get aggregates by manufacturer

`enter` to filter by manufacturer

Irish Properties

House Prices 😭

https://propertypriceregister.ie

```
vd --encoding=windows-1252 PPR-ALL.csv.gz
```

$ for currency