



```
In [42]: f = rotate_houghplot with respect to home_aperture.  
plt.figure(figsize=(11, 11))  
new_houghplot(ax='home_aperture', y='city', data=cc)  
plt.show()
```

Time	Growth
0	0
5	1
10	2
15	3
20	4
25	5

Population density plot

Population Density	Count
400	1

```

plot_violin("Median age: does retirement pension?",
plot_show())

```

● 0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
● 0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
● 0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
● 0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000

```

In [30]: # percentage of each mean of 3 states.
def to_groupby(df:'data') ['week mean', 'mean']
plt.plot(df.head(), asuptot='3000', label=df.head().index)
plt.show()

```

[illegible]

Variable	Mean	SD	Min	Max	Skewness	Kurtosis	Normality
Family support	-0.000000	0.075000	-0.000000	0.000000	0.000000	0.000000	0.000000
Self-management status	-0.000000	0.000000	-0.000000	0.000000	0.000000	0.000000	0.000000
Self-management status	-0.000000	0.000000	-0.000000	0.000000	0.000000	0.000000	0.000000

[illegible]

1. *Journal of the American Medical Association*, 1997; 277: 1033-1036.

```
chi_square_value, p_value, calculate_chi_square, significance(main)
chi_square_value, p_value
# Since p_value is less than 0.05 we reject null hypothesis which means observed correlation is not due
# to chance.
# The test is statistically significant.
```

0.89612481,	0.21487608,	0.58721615,	-0.0464787,	0.36324302,
-0.20621917,	0.86489814,	-0.27948814,	0.3535499,	0.25531466,
0.14616462,	0.96472838,	-0.17532161,	-0.04936343,	0.12387748,
0.81221632,	0.21744826,	0.14531283,	-0.13864269,	-0.54496161,
0.81803712,	0.21338811,	0.16176027,	-0.14321,	-0.58740277,
0.8576122,	0.21492036,	0.13262016,	-0.04674287,	0.39738802,

	0	1	2	3
0000000000	0.00000000	0.00000000	0.00000000	0.00000000
0000000001	0.00000000	0.00000000	0.00000000	0.00000000

Disbursement Type	Amount	Year	Source	Comments
...	...	...	...	...

Feature	Mean	Std. Dev.	Min.	Max.
body_weight	10.0000	1.0000	8.0000	12.0000
body_mass	10.0000	1.0000	8.0000	12.0000
body_weight_weight	0.1100	0.000	0.000	0.000
body_weightage	0.0000	0.000	0.000	0.000

	0.0000	0.0000	0.0000	0.0000	0.0000
female_age_weight	0.0000	0.000	-0.001	0.000	-0.000
female_age_weight	-0.0005	0.000	-0.000	0.000	0.000
pat_race	-60.9760	27.660	-0.750	0.000	-60.954

