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Plotting categorical data with pandas and matplotlib

I have a data frame with categorical data:

| | colour | direction |
|---|--------|-----------|
| 1 | red | up |
| 2 | blue | up |
| 3 | green | down |
| 4 | red | left |
| 5 | red | right |
| 6 | yellow | down |
| 7 | blue | down |

I want to generate some graphs, like pie charts and histograms based on the categories. Is it possible without creating dummy numeric variables? Something like

```
df.plot(kind='hist')
```

[python](#) [pandas](#)

edited Sep 13 '17 at 8:06



[aquire](#)

52 11

asked Jun 24 '15 at 14:37



[Ivan](#)

4,956 11 49 89

3 Answers

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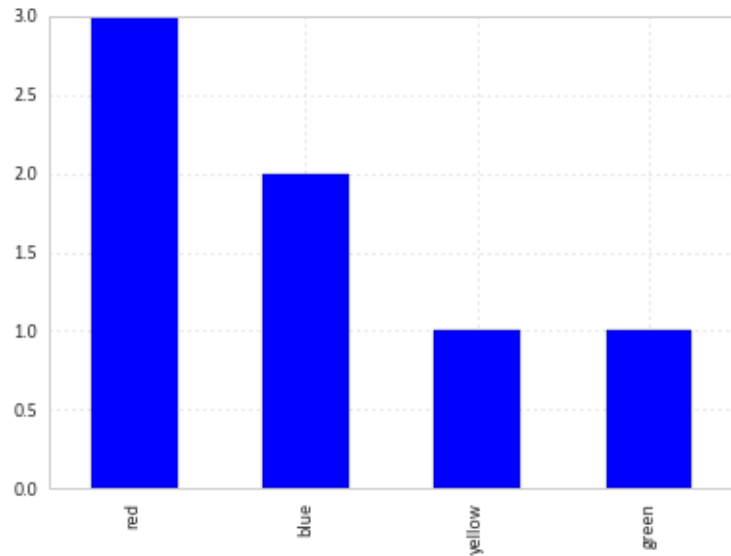
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edited Aug 22 '17 at 14:52

answered Jun 24 '15 at 14:50



Alexander

40.5k 8 58 87

Suggesting `df["colour"].value_counts().plot(kind='bar')` as common alternative – [openwonk](#)
Jun 30 '17 at 20:57

Is it possible to specify the order of the x labels? – [P. Camilleri](#) Dec 20 '17 at 14:17

like this :

```
df.groupby('colour').size().plot(kind='bar')
```

answered Jun 24 '15 at 14:51



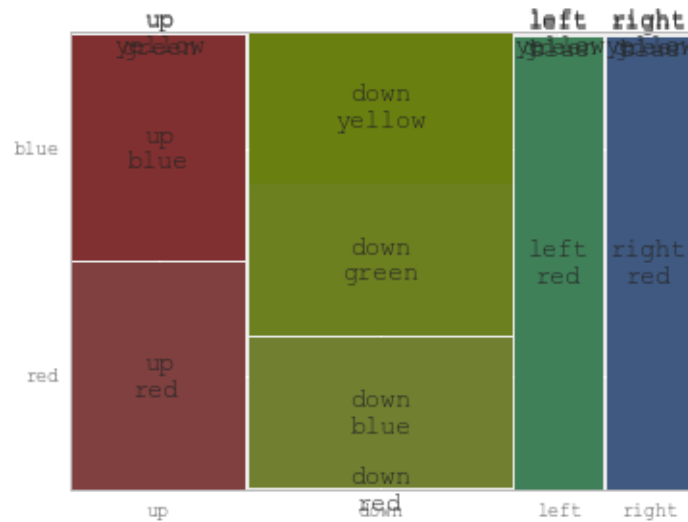
steboc

616 3 14

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highlighting for the variances.

```
from statsmodels.graphics.mosaicplot import mosaic
plt.rcParams['font.size'] = 16.0
mosaic(df, ['direction', 'colour']);
```



But beware of the 0 sized cell - they will cause problems with labels.

See [this answer](#) for details

edited May 23 '17 at 10:31



Community ♦

1 1

answered Jun 24 '15 at 17:53



Primer

5,076 2 14 31

Thanks. I keep getting ValueError: Cannot convert NA to integer on it. – [Ivan](#) Jul 2 '15 at 11:47

1 That's why I referenced [this answer](#). It should help to address this problem. – [Primer](#) Jul 2 '15 at 14:29