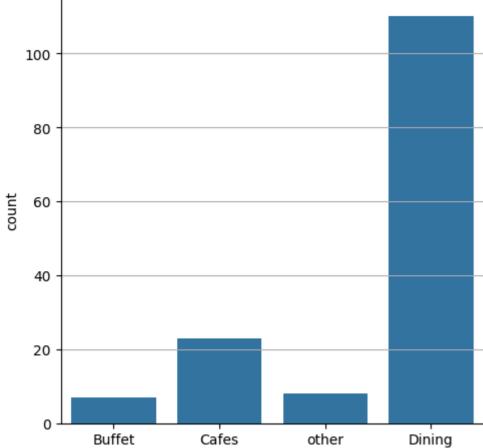
## 1. What type of restaurant do the majority of customers order from?

plt.grid(axis="y") plt.show() 100 80

In [17]: sns.catplot(x="listed\_in(type)", kind="count", data=df)

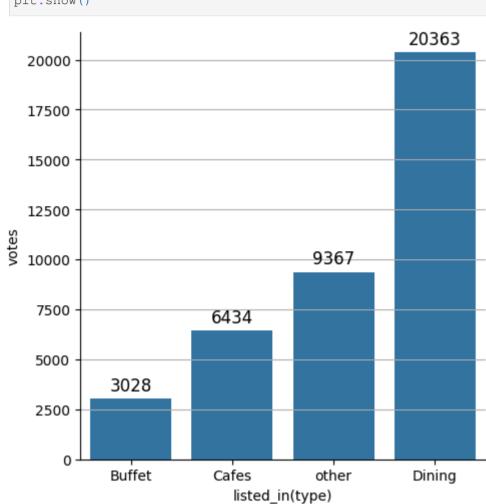


Majority of customers order from Dining type restaurants

listed\_in(type)

# 2. How many votes has each type of restaurant received from customers?

In [25]: g = sns.catplot(x="listed\_in(type)", y="votes", kind="bar", data=df, estimator=np.sum, errorbar=None) plt.grid(axis="y") # Add labels on top of bars ax = g.ax # Get the axes from the FacetGrid for container in ax.containers: ax.bar\_label(container, fmt="%.0f", label\_type="edge", fontsize=12, color='black', padding=3) plt.show()



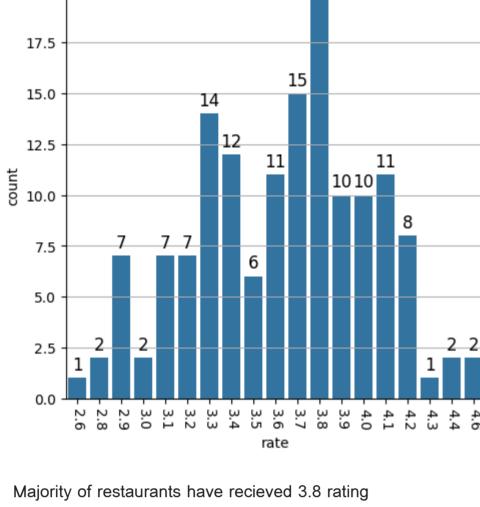
#### Dining type restaurants have received 20363 votings Other type restaurants have received 9367 votings

Cafes type restaurants have received 6434 votings

Buffet type restaurants have received 3028 votings

3. What are the ratings that the majority of restaurants have received??

In [31]: # Create the catplot g = sns.catplot(x="rate", kind="count", data=df) # Add labels on top of bars ax = g.ax # Get the axes from the FacetGrid for container in ax.containers: ax.bar\_label(container, fmt="%.0f", label\_type="edge", fontsize=12, color='black', padding=3) # Rotate x-ticks, add grid, and show the plot plt.xticks(rotation=270) plt.grid(axis="y") plt.show() 20 20.0 17.5 15



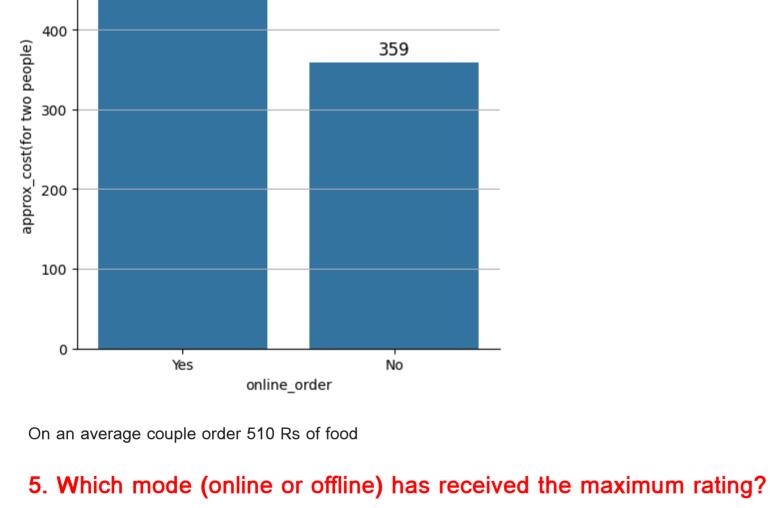
#### In [32]: sns.histplot(df.loc[:,"rate"]) Out[32]: <Axes: xlabel='rate', ylabel='Count'>



#### In [39]: g = sns.catplot(x="online\_order",y="approx\_cost(for two people)",kind="bar",data=df,estimator=np.mean,errorbar=None) plt.grid(axis="y") # Add labels on top of bars

ax = g.ax # Get the axes from the FacetGrid for container in ax.containers: ax.bar\_label(container, fmt="%.0f", label\_type="edge", fontsize=12, color='black', padding=3)

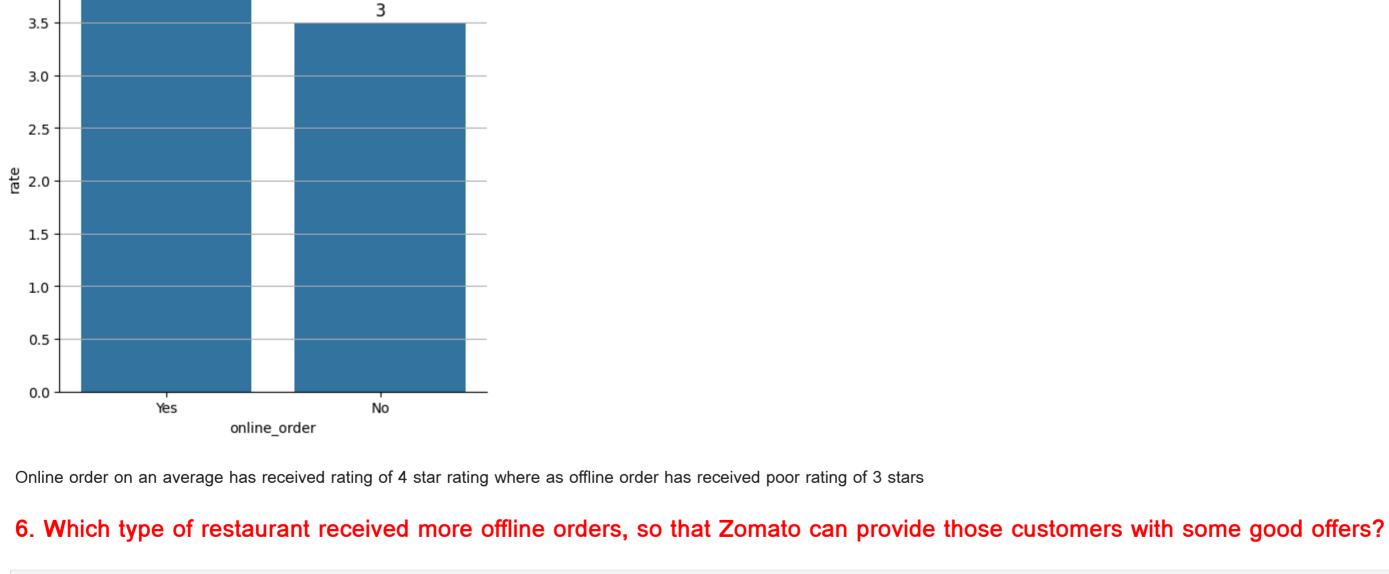
plt.show() 510 500



In [40]: g = sns.catplot(x="online\_order", y="rate", kind="bar", data=df, estimator=np.mean, errorbar=None) plt.grid(axis="y")

### # Add labels on top of bars ax = g.ax # Get the axes from the FacetGrid

for container in ax.containers: ax.bar\_label(container, fmt="%.0f", label\_type="edge", fontsize=12, color='black', padding=3) plt.show() 4.0



In [42]: # Create the catplot g = sns.catplot(x="listed\_in(type)", kind="count", data=df, hue="online\_order")

33

Yes

#### # Add labels on top of bars ax = g.ax # Get the axes from the FacetGrid

for container in ax.containers: ax.bar\_label(container, fmt="%.0f", label\_type="edge", fontsize=12, color='black', padding=3) # Rotate x-ticks, add grid, and show the plot plt.xticks(rotation=270) plt.grid(axis="y") plt.show() 77 80 70 60 50 conut online\_order



Dining type has received more offline orders

15

30

20

10