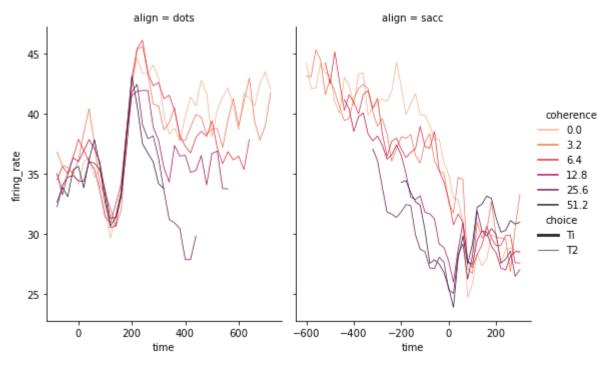
4/6/22, 6:15 PM 04_otherplots

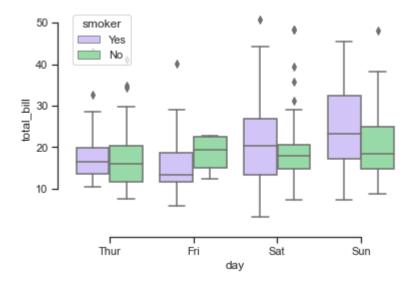
line plot with multifacets

```
import seaborn as sns
import numpy as np
import matplotlib.pyplot as plt
import pandas as pd
nuqta=sns.load_dataset("dots")
nuqta.head()
```

```
Out[1]:
             align choice time coherence firing_rate
          0
              dots
                        T1
                             -80
                                         0.0
                                               33.189967
              dots
                       T1
                             -80
                                         3.2
                                              31.691726
          2
              dots
                       T1
                             -80
                                         6.4
                                              34.279840
          3
              dots
                       T1
                             -80
                                        12.8
                                              32.631874
                       T1
                             -80
                                        25.6
                                              35.060487
              dots
```

Out[5]: <seaborn.axisgrid.FacetGrid at 0x29c708e5e50>

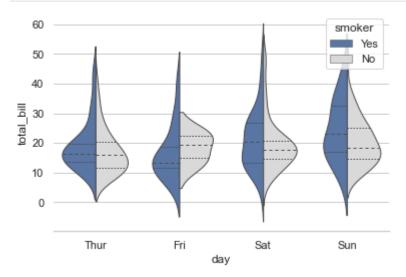




```
import seaborn as sns
sns.set_theme(style="whitegrid")

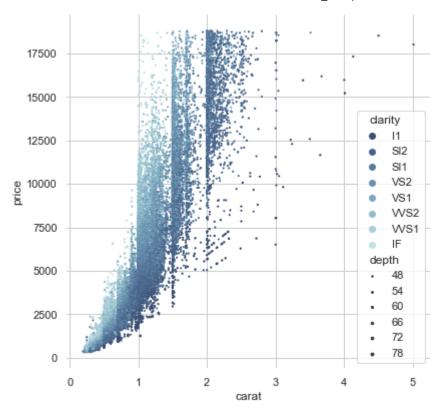
# Load the example tips dataset
tips = sns.load_dataset("tips")
```

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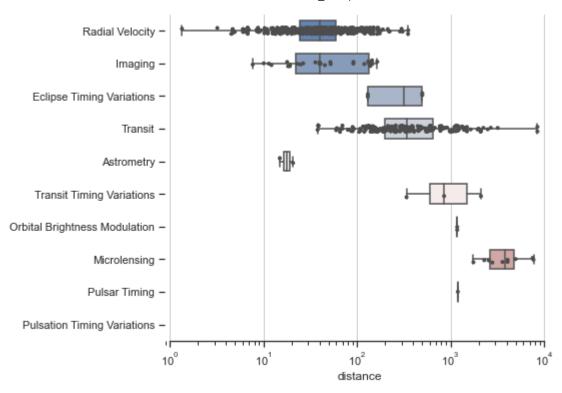


```
In [8]:
         import seaborn as sns
         import matplotlib.pyplot as plt
         sns.set_theme(style="whitegrid")
         # Load the example diamonds dataset
         diamonds = sns.load_dataset("diamonds")
         # Draw a scatter plot while assigning point colors and sizes to different
         # variables in the dataset
         f, ax = plt.subplots(figsize=(6.5, 6.5))
         sns.despine(f, left=True, bottom=True)
         clarity_ranking = ["I1", "SI2", "SI1", "VS2", "VS1", "VVS2", "VVS1", "IF"]
         sns.scatterplot(x="carat", y="price",
                         hue="clarity", size="depth",
                         palette="ch:r=-.2,d=.3_r",
                         hue order=clarity ranking,
                         sizes=(1, 8), linewidth=0,
                         data=diamonds, ax=ax)
```

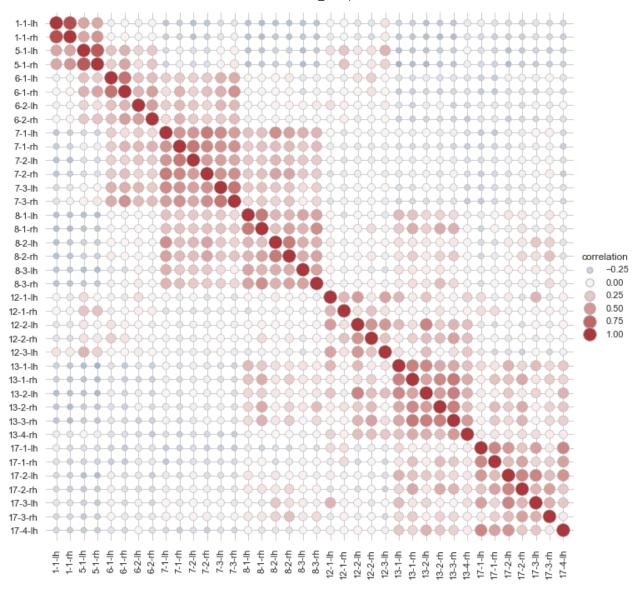
Out[8]: <AxesSubplot:xlabel='carat', ylabel='price'>



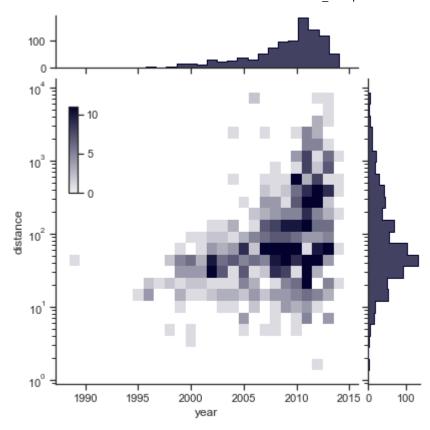
```
In [11]:
          import seaborn as sns
          import matplotlib.pyplot as plt
          sns.set_theme(style="ticks")
          \# Initialize the figure with a logarithmic x axis
          f, ax = plt.subplots(figsize=(7, 6))
          ax.set_xscale("log")
          # Load the example planets dataset
          planets = sns.load_dataset("planets")
          # Plot the orbital period with horizontal boxes
          sns.boxplot(x="distance", y="method", data=planets,
                      whis=[0, 100], width=.6, palette="vlag")
          # Add in points to show each observation
          sns.stripplot(x="distance", y="method", data=planets,
                        size=4, color=".3", linewidth=0)
          # Tweak the visual presentation
          ax.xaxis.grid(True)
          ax.set(ylabel="")
          sns.despine(trim=True, left=True)
```



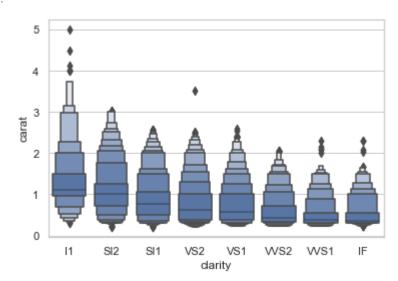
```
In [12]:
          import seaborn as sns
          sns.set theme(style="whitegrid")
          # Load the brain networks dataset, select subset, and collapse the multi-index
          df = sns.load_dataset("brain_networks", header=[0, 1, 2], index_col=0)
          used_networks = [1, 5, 6, 7, 8, 12, 13, 17]
          used columns = (df.columns
                             .get_level_values("network")
                             .astype(int)
                             .isin(used networks))
          df = df.loc[:, used_columns]
          df.columns = df.columns.map("-".join)
          # Compute a correlation matrix and convert to long-form
          corr_mat = df.corr().stack().reset_index(name="correlation")
          # Draw each cell as a scatter point with varying size and color
          g = sns.relplot(
              data=corr mat,
              x="level_0", y="level_1", hue="correlation", size="correlation",
              palette="vlag", hue_norm=(-1, 1), edgecolor=".7",
              height=10, sizes=(50, 250), size_norm=(-.2, .8),
          )
          # Tweak the figure to finalize
          g.set(xlabel="", ylabel="", aspect="equal")
          g.despine(left=True, bottom=True)
          g.ax.margins(.02)
          for label in g.ax.get_xticklabels():
              label.set_rotation(90)
          for artist in g.legend.legendHandles:
              artist.set edgecolor(".7")
```



Out[13]: <seaborn.axisgrid.JointGrid at 0x29c730d7f40>



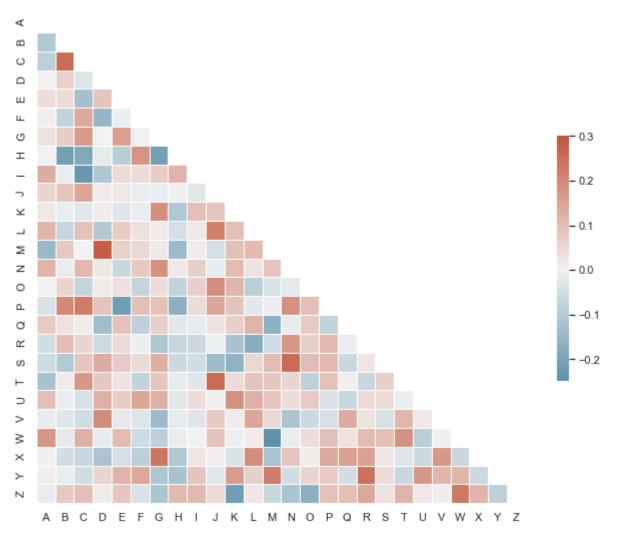
Out[14]: <AxesSubplot:xlabel='clarity', ylabel='carat'>



```
from string import ascii_letters
import numpy as np
import pandas as pd
```

```
import seaborn as sns
import matplotlib.pyplot as plt
sns.set_theme(style="white")
# Generate a Large random dataset
rs = np.random.RandomState(33)
d = pd.DataFrame(data=rs.normal(size=(100, 26)),
                 columns=list(ascii_letters[26:]))
# Compute the correlation matrix
corr = d.corr()
# Generate a mask for the upper triangle
mask = np.triu(np.ones_like(corr, dtype=bool))
# Set up the matplotlib figure
f, ax = plt.subplots(figsize=(11, 9))
# Generate a custom diverging colormap
cmap = sns.diverging_palette(230, 20, as_cmap=True)
# Draw the heatmap with the mask and correct aspect ratio
sns.heatmap(corr, mask=mask, cmap=cmap, vmax=.3, center=0,
            square=True, linewidths=.5, cbar_kws={"shrink": .5})
```

Out[17]: <AxesSubplot:>



In []: