

05-mitverschuldensquoten

2024-09-01

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[ ]: import pandas as pd
import seaborn as sns
import matplotlib.pyplot as plt
import numpy as np
sns.set_style('whitegrid')
import dateutil

[ ]: df = pd.read_csv('../data/BGH-XI-helpers/mitverschulden-abb-3.csv', sep=';')
df['Datum'] = [dateutil.parser.parse(x, dayfirst=True) for x in df['Datum']]
df = df.rename({'Az.': 'Aktenzeichen', '254 (Quote)': 'anleger_quote'},
               axis=1)
df = df.rename({x:x.lower() for x in df.columns}, axis=1)
df['color'] = ['k' if x != 'XI' else 'grey' for x in df.senat]
df['anleger_quote'] = [float(x.replace(',', '.'))[:-1])/100 if '/' not in x else
    ↳ np.divide(*[float(y) for y in x.split('/')])
    for x in df.anleger_quote]

[ ]: plt.rcParams['figure.figsize'] = (9,6)
plt.rcParams['font.serif'] = 'BitstreamVeraSans Roman'
plt.rcParams['font.style'] = 'normal'
plt.rcParams['font.size'] = 9

[ ]: quoten = {}
for quote, color, az in zip(df.anleger_quote, df.color, df.aktenzeichen):
    if quote not in quoten:
        quoten[quote] = 0
    quoten[quote] += 1
    plt.scatter(quote, quoten[quote], marker='s', color=color)
    plt.text(quote + 0.01 if quote not in [0.3] else quote - 0.06,
    ↳ quoten[quote], az.split(' ')[-1],
    fontdict=dict(color=color,
    verticalalignment='baseline',
    ↳ horizontalalignment='left'), rotation=0)
plt.xlim(-0.05,1.0)
plt.xticks(np.arange(0,1.1,0.1), labels=[f'{int(x*100)} %' for x in np.
    ↳ arange(0,1.1,0.1)])
plt.gca().tick_params(pad=8)
plt.ylim(0,16)
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plt.yticks(range(0,16))
plt.xlabel('Mitverschulden des Anlegers')
plt.ylabel('Anzahl der Entscheidungen')
plt.tight_layout()
for ending in ['svg', 'png', 'eps', 'ps', 'pdf']:
    plt.savefig(f'../figures/abbildung-3-no-xizr.{ending}')
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