

# Nutrition Facts for McDonald's Menu

This dataset provides a nutrition analysis of every menu item on the US McDonald's menu, including breakfast, beef burgers, chicken and fish sandwiches, fries, salads, soda, coffee and tea, milkshakes, and desserts.

```
In [3]: pip install ydata-profiling
```

Requirement already satisfied: ydata-profiling in c:\users\sharm\anaconda3\lib\site-packages (4.10.0)

Requirement already satisfied: scipy<1.14,>=1.4.1 in c:\users\sharm\anaconda3\lib\site-packages (from ydata-profiling) (1.11.4)

Requirement already satisfied: pandas!=1.4.0,<3,>1.1 in c:\users\sharm\anaconda3\lib\site-packages (from ydata-profiling) (2.1.4)

Requirement already satisfied: matplotlib<3.10,>=3.5 in c:\users\sharm\anaconda3\lib\site-packages (from ydata-profiling) (3.8.0)

Requirement already satisfied: pydantic>=2 in c:\users\sharm\anaconda3\lib\site-packages (from ydata-profiling) (2.9.1)

Requirement already satisfied: PyYAML<6.1,>=5.0.0 in c:\users\sharm\anaconda3\lib\site-packages (from ydata-profiling) (6.0.1)

Requirement already satisfied: jinja2<3.2,>=2.11.1 in c:\users\sharm\anaconda3\lib\site-packages (from ydata-profiling) (3.1.3)

Requirement already satisfied: visions<0.7.7,>=0.7.5 in c:\users\sharm\anaconda3\lib\site-packages (from visions[type\_image\_path]<0.7.7,>=0.7.5->ydata-profiling) (0.7.6)

Requirement already satisfied: numpy<2.2,>=1.16.0 in c:\users\sharm\anaconda3\lib\site-packages (from ydata-profiling) (1.26.4)

Requirement already satisfied: htmlmin==0.1.12 in c:\users\sharm\anaconda3\lib\site-packages (from ydata-profiling) (0.1.12)

Requirement already satisfied: phik<0.13,>=0.11.1 in c:\users\sharm\anaconda3\lib\site-packages (from ydata-profiling) (0.12.4)

Requirement already satisfied: requests<3,>=2.24.0 in c:\users\sharm\anaconda3\lib\site-packages (from ydata-profiling) (2.31.0)

Requirement already satisfied: tqdm<5,>=4.48.2 in c:\users\sharm\anaconda3\lib\site-packages (from ydata-profiling) (4.65.0)

Requirement already satisfied: seaborn<0.14,>=0.10.1 in c:\users\sharm\anaconda3\lib\site-packages (from ydata-profiling) (0.12.2)

Requirement already satisfied: multimethod<2,>=1.4 in c:\users\sharm\anaconda3\lib\site-packages (from ydata-profiling) (1.12)

Requirement already satisfied: statsmodels<1,>=0.13.2 in c:\users\sharm\anaconda3\lib\site-packages (from ydata-profiling) (0.14.0)

Requirement already satisfied: typeguard<5,>=3 in c:\users\sharm\anaconda3\lib\site-packages (from ydata-profiling) (4.3.0)

Requirement already satisfied: imagehash==4.3.1 in c:\users\sharm\anaconda3\lib\site-packages (from ydata-profiling) (4.3.1)

Requirement already satisfied: wordcloud>=1.9.3 in c:\users\sharm\anaconda3\lib\site-packages (from ydata-profiling) (1.9.3)

Requirement already satisfied: dacite>=1.8 in c:\users\sharm\anaconda3\lib\site-packages (from ydata-profiling) (1.8.1)

Requirement already satisfied: numba<1,>=0.56.0 in c:\users\sharm\anaconda3\lib\site-packages (from ydata-profiling) (0.59.0)

Requirement already satisfied: PyWavelets in c:\users\sharm\anaconda3\lib\site-packages (from imagehash==4.3.1->ydata-profiling) (1.5.0)

Requirement already satisfied: pillow in c:\users\sharm\anaconda3\lib\site-packages (from imagehash==4.3.1->ydata-profiling) (10.2.0)

Requirement already satisfied: MarkupSafe>=2.0 in c:\users\sharm\anaconda3\lib\site-packages (from jinja2<3.2,>=2.11.1->ydata-profiling) (2.1.3)

Requirement already satisfied: contourpy>=1.0.1 in c:\users\sharm\anaconda3\lib\site-packages (from matplotlib<3.10,>=3.5->ydata-profiling) (1.2.0)

Requirement already satisfied: cycpler>=0.10 in c:\users\sharm\anaconda3\lib\site-packages (from matplotlib<3.10,>=3.5->ydata-profiling) (0.11.0)

Requirement already satisfied: fonttools>=4.22.0 in c:\users\sharm\anaconda3\lib\site-packages (from matplotlib<3.10,>=3.5->ydata-profiling) (4.25.0)

Requirement already satisfied: kiwisolver>=1.0.1 in c:\users\sharm\anaconda3

\lib\site-packages (from matplotlib<3.10,>=3.5->ydata-profiling) (1.4.4)  
 Requirement already satisfied: packaging>=20.0 in c:\users\sharm\anaconda3\lib\site-packages (from matplotlib<3.10,>=3.5->ydata-profiling) (23.1)  
 Requirement already satisfied: pyparsing>=2.3.1 in c:\users\sharm\anaconda3\lib\site-packages (from matplotlib<3.10,>=3.5->ydata-profiling) (3.0.9)  
 Requirement already satisfied: python-dateutil>=2.7 in c:\users\sharm\anaconda3\lib\site-packages (from matplotlib<3.10,>=3.5->ydata-profiling) (2.8.2)  
 Requirement already satisfied: llvmlite<0.43,>=0.42.0dev0 in c:\users\sharm\anaconda3\lib\site-packages (from numba<1,>=0.56.0->ydata-profiling) (0.42.0)  
 Requirement already satisfied: pytz>=2020.1 in c:\users\sharm\anaconda3\lib\site-packages (from pandas!=1.4.0,<3,>1.1->ydata-profiling) (2023.3.post1)  
 Requirement already satisfied: tzdata>=2022.1 in c:\users\sharm\anaconda3\lib\site-packages (from pandas!=1.4.0,<3,>1.1->ydata-profiling) (2023.3)  
 Requirement already satisfied: joblib>=0.14.1 in c:\users\sharm\anaconda3\lib\site-packages (from phik<0.13,>=0.11.1->ydata-profiling) (1.1.1)  
 Requirement already satisfied: annotated-types>=0.6.0 in c:\users\sharm\anaconda3\lib\site-packages (from pydantic>=2->ydata-profiling) (0.7.0)  
 Requirement already satisfied: pydantic-core==2.23.3 in c:\users\sharm\anaconda3\lib\site-packages (from pydantic>=2->ydata-profiling) (2.23.3)  
 Requirement already satisfied: typing-extensions>=4.6.1 in c:\users\sharm\anaconda3\lib\site-packages (from pydantic>=2->ydata-profiling) (4.12.2)  
 Requirement already satisfied: charset-normalizer<4,>=2 in c:\users\sharm\anaconda3\lib\site-packages (from requests<3,>=2.24.0->ydata-profiling) (2.0.4)  
 Requirement already satisfied: idna<4,>=2.5 in c:\users\sharm\anaconda3\lib\site-packages (from requests<3,>=2.24.0->ydata-profiling) (3.4)  
 Requirement already satisfied: urllib3<3,>=1.21.1 in c:\users\sharm\anaconda3\lib\site-packages (from requests<3,>=2.24.0->ydata-profiling) (1.26.20)  
 Requirement already satisfied: certifi>=2017.4.17 in c:\users\sharm\anaconda3\lib\site-packages (from requests<3,>=2.24.0->ydata-profiling) (2024.6.2)  
 Requirement already satisfied: patsy>=0.5.2 in c:\users\sharm\anaconda3\lib\site-packages (from statsmodels<1,>=0.13.2->ydata-profiling) (0.5.3)  
 Requirement already satisfied: colorama in c:\users\sharm\anaconda3\lib\site-packages (from tqdm<5,>=4.48.2->ydata-profiling) (0.4.6)  
 Requirement already satisfied: attrs>=19.3.0 in c:\users\sharm\anaconda3\lib\site-packages (from visions<0.7.7,>=0.7.5->visions[type\_image\_path]<0.7.7,>=0.7.5->ydata-profiling) (23.1.0)  
 Requirement already satisfied: networkx>=2.4 in c:\users\sharm\anaconda3\lib\site-packages (from visions<0.7.7,>=0.7.5->visions[type\_image\_path]<0.7.7,>=0.7.5->ydata-profiling) (3.1)  
 Requirement already satisfied: six in c:\users\sharm\anaconda3\lib\site-packages (from patsy>=0.5.2->statsmodels<1,>=0.13.2->ydata-profiling) (1.16.0)  
 Note: you may need to restart the kernel to use updated packages.

```

In [4]: import pandas as pd
        from ydata_profiling import ProfileReport
        import numpy as np
        import matplotlib.pyplot as plt
        import seaborn as sns
        import plotly.express as px
        sales = pd.read_csv("E:\chromedownload\menu.csv")
        sales
  
```

Out [4] :

	Category	Item	Serving Size	Calories	Calories from Fat	Total Fat	Total Fat (% Daily Value)	Saturated Fat	Saturated Fat (% Daily Value)
0	Breakfast	Egg McMuffin	4.8 oz (136 g)	300	120	13.0	20	5.0	20%
1	Breakfast	Egg White Delight	4.8 oz (135 g)	250	70	8.0	12	3.0	12%
2	Breakfast	Sausage McMuffin	3.9 oz (111 g)	370	200	23.0	35	8.0	40%
3	Breakfast	Sausage McMuffin with Egg	5.7 oz (161 g)	450	250	28.0	43	10.0	50%
4	Breakfast	Sausage McMuffin with Egg Whites	5.7 oz (161 g)	400	210	23.0	35	8.0	40%
...	...	...	...	...	...	...	...	...	...
255	Smoothies & Shakes	McFlurry with Oreo Cookies (Small)	10.1 oz (285 g)	510	150	17.0	26	9.0	40%
256	Smoothies & Shakes	McFlurry with Oreo Cookies (Medium)	13.4 oz (381 g)	690	200	23.0	35	12.0	50%
257	Smoothies & Shakes	McFlurry with Oreo Cookies (Snack)	6.7 oz (190 g)	340	100	11.0	17	6.0	20%
258	Smoothies & Shakes	McFlurry with Reese's Peanut Butter Cups (Medium)	14.2 oz (403 g)	810	290	32.0	50	15.0	70%
259	Smoothies & Shakes	McFlurry with Reese's Peanut Butter Cups (Snack)	7.1 oz (202 g)	410	150	16.0	25	8.0	30%

260 rows × 24 columns

```
In [5]: profile=ProfileReport(sales)
        profile.to_file(output_file="sales.html")
```

```
Summarize dataset: 0%|          | 0/5 [00:00<?, ?it/s]
Generate report structure: 0%|          | 0/1 [00:00<?, ?it/s]
Render HTML: 0%|          | 0/1 [00:00<?, ?it/s]
Export report to file: 0%|          | 0/1 [00:00<?, ?it/s]
```

```
In [6]: sales.columns
```

```
Out[6]: Index(['Category', 'Item', 'Serving Size', 'Calories', 'Calories from Fat',
              'Total Fat', 'Total Fat (% Daily Value)', 'Saturated Fat',
              'Saturated Fat (% Daily Value)', 'Trans Fat', 'Cholesterol',
              'Cholesterol (% Daily Value)', 'Sodium', 'Sodium (% Daily Value)',
              'Carbohydrates', 'Carbohydrates (% Daily Value)', 'Dietary Fiber',
              'Dietary Fiber (% Daily Value)', 'Sugars', 'Protein',
              'Vitamin A (% Daily Value)', 'Vitamin C (% Daily Value)',
              'Calcium (% Daily Value)', 'Iron (% Daily Value)'],
             dtype='object')
```

## Data Cleaning

```
In [8]: sales.isnull().sum()
```

```
Out[8]: Category      0
        Item          0
        Serving Size  0
        Calories      0
        Calories from Fat  0
        Total Fat      0
        Total Fat (% Daily Value)  0
        Saturated Fat  0
        Saturated Fat (% Daily Value)  0
        Trans Fat      0
        Cholesterol    0
        Cholesterol (% Daily Value)  0
        Sodium         0
        Sodium (% Daily Value)  0
        Carbohydrates  0
        Carbohydrates (% Daily Value)  0
        Dietary Fiber  0
        Dietary Fiber (% Daily Value)  0
        Sugars         0
        Protein        0
        Vitamin A (% Daily Value)  0
        Vitamin C (% Daily Value)  0
        Calcium (% Daily Value)  0
        Iron (% Daily Value)  0
        dtype: int64
```

```
In [9]: sales.duplicated().sum()
```

```
Out[9]: 0
```

```
In [10]: sales.describe().T
```

```
Out[10]:
```

	count	mean	std	min	25%	50%	75%	max
<b>Calories</b>	260.0	368.269231	240.269886	0.0	210.000	340.0	500.00	1880.0
<b>Calories from Fat</b>	260.0	127.096154	127.875914	0.0	20.000	100.0	200.00	1060.0
<b>Total Fat</b>	260.0	14.165385	14.205998	0.0	2.375	11.0	22.25	118.0
<b>Total Fat (% Daily Value)</b>	260.0	21.815385	21.885199	0.0	3.750	17.0	35.00	182.0
<b>Saturated Fat</b>	260.0	6.007692	5.321873	0.0	1.000	5.0	10.00	20.0
<b>Saturated Fat (% Daily Value)</b>	260.0	29.965385	26.639209	0.0	4.750	24.0	48.00	102.0
<b>Trans Fat</b>	260.0	0.203846	0.429133	0.0	0.000	0.0	0.00	2.5
<b>Cholesterol</b>	260.0	54.942308	87.269257	0.0	5.000	35.0	65.00	575.0
<b>Cholesterol (% Daily Value)</b>	260.0	18.392308	29.091653	0.0	2.000	11.0	21.25	192.0
<b>Sodium</b>	260.0	495.750000	577.026323	0.0	107.500	190.0	865.00	3600.0
<b>Sodium (% Daily Value)</b>	260.0	20.676923	24.034954	0.0	4.750	8.0	36.25	150.0
<b>Carbohydrates</b>	260.0	47.346154	28.252232	0.0	30.000	44.0	60.00	141.0
<b>Carbohydrates (% Daily Value)</b>	260.0	15.780769	9.419544	0.0	10.000	15.0	20.00	47.0
<b>Dietary Fiber</b>	260.0	1.630769	1.567717	0.0	0.000	1.0	3.00	7.0
<b>Dietary Fiber (% Daily Value)</b>	260.0	6.530769	6.307057	0.0	0.000	5.0	10.00	28.0
<b>Sugars</b>	260.0	29.423077	28.679797	0.0	5.750	17.5	48.00	128.0
<b>Protein</b>	260.0	13.338462	11.426146	0.0	4.000	12.0	19.00	87.0
<b>Vitamin A (% Daily Value)</b>	260.0	13.426923	24.366381	0.0	2.000	8.0	15.00	170.0
<b>Vitamin C (% Daily Value)</b>	260.0	8.534615	26.345542	0.0	0.000	0.0	4.00	240.0
<b>Calcium (% Daily Value)</b>	260.0	20.973077	17.019953	0.0	6.000	20.0	30.00	70.0
<b>Iron (% Daily Value)</b>	260.0	7.734615	8.723263	0.0	0.000	4.0	15.00	40.0

```
In [11]: numeric_df = sales.select_dtypes(include=['float64', 'int64'])
corr_matrix = numeric_df.corr()

print(corr_matrix)
```

	Calories	Calories from Fat	Total Fat \
Calories	1.000000	0.904588	0.904409
Calories from Fat	0.904588	1.000000	0.999663
Total Fat	0.904409	0.999663	1.000000
Total Fat (% Daily Value)	0.904123	0.999725	0.999765
Saturated Fat	0.845564	0.847008	0.846707
Saturated Fat (% Daily Value)	0.847631	0.849592	0.849293
Trans Fat	0.522441	0.433686	0.431453
Cholesterol	0.596399	0.682161	0.680547
Cholesterol (% Daily Value)	0.595208	0.681607	0.680000
Sodium	0.712309	0.846624	0.846158
Sodium (% Daily Value)	0.713415	0.847276	0.846780
Carbohydrates	0.781539	0.461672	0.461213
Carbohydrates (% Daily Value)	0.781242	0.461463	0.461005
Dietary Fiber	0.538894	0.581274	0.580837
Dietary Fiber (% Daily Value)	0.540014	0.575621	0.575206
Sugars	0.259598	-0.115285	-0.115446
Protein	0.787847	0.807913	0.807773
Vitamin A (% Daily Value)	0.108844	0.056731	0.054434
Vitamin C (% Daily Value)	-0.068747	-0.087331	-0.089354
Calcium (% Daily Value)	0.428426	0.161034	0.162860
Iron (% Daily Value)	0.643552	0.735894	0.734685

	Total Fat (% Daily Value)	Saturated Fat \
Calories	0.904123	0.845564
Calories from Fat	0.999725	0.847008
Total Fat	0.999765	0.846707
Total Fat (% Daily Value)	1.000000	0.847379
Saturated Fat	0.847379	1.000000
Saturated Fat (% Daily Value)	0.849973	0.999279
Trans Fat	0.433016	0.620611
Cholesterol	0.680940	0.631210
Cholesterol (% Daily Value)	0.680378	0.630334
Sodium	0.846728	0.584075
Sodium (% Daily Value)	0.847368	0.585323
Carbohydrates	0.460516	0.591261
Carbohydrates (% Daily Value)	0.460298	0.591743
Dietary Fiber	0.580592	0.351818
Dietary Fiber (% Daily Value)	0.575033	0.347152
Sugars	-0.115761	0.197734
Protein	0.807922	0.603028
Vitamin A (% Daily Value)	0.054038	0.064972
Vitamin C (% Daily Value)	-0.089353	-0.179672
Calcium (% Daily Value)	0.162031	0.403311
Iron (% Daily Value)	0.735478	0.578062

	Saturated Fat (% Daily Value)	Trans Fat \
Calories	0.847631	0.522441
Calories from Fat	0.849592	0.433686
Total Fat	0.849293	0.431453
Total Fat (% Daily Value)	0.849973	0.433016
Saturated Fat	0.999279	0.620611
Saturated Fat (% Daily Value)	1.000000	0.620210
Trans Fat	0.620210	1.000000
Cholesterol	0.633603	0.253935
Cholesterol (% Daily Value)	0.632712	0.251502

Sodium	0.588694	0.187580
Sodium (% Daily Value)	0.589958	0.188339
Carbohydrates	0.591322	0.463250
Carbohydrates (% Daily Value)	0.591655	0.462891
Dietary Fiber	0.356831	0.054918
Dietary Fiber (% Daily Value)	0.351797	0.058301
Sugars	0.195928	0.334756
Protein	0.606581	0.388249
Vitamin A (% Daily Value)	0.065376	0.075833
Vitamin C (% Daily Value)	-0.178059	-0.076612
Calcium (% Daily Value)	0.401139	0.385331
Iron (% Daily Value)	0.580488	0.325476

	Cholesterol	Cholesterol (% Daily Value) \
Calories	0.596399	0.595208
Calories from Fat	0.682161	0.681607
Total Fat	0.680547	0.680000
Total Fat (% Daily Value)	0.680940	0.680378
Saturated Fat	0.631210	0.630334
Saturated Fat (% Daily Value)	0.633603	0.632712
Trans Fat	0.253935	0.251502
Cholesterol	1.000000	0.999855
Cholesterol (% Daily Value)	0.999855	1.000000
Sodium	0.624362	0.623320
Sodium (% Daily Value)	0.624743	0.623720
Carbohydrates	0.270977	0.269300
Carbohydrates (% Daily Value)	0.272662	0.270992
Dietary Fiber	0.435575	0.434940
Dietary Fiber (% Daily Value)	0.440266	0.439814
Sugars	-0.135518	-0.136459
Protein	0.561561	0.560957
Vitamin A (% Daily Value)	0.080239	0.080059
Vitamin C (% Daily Value)	-0.082978	-0.083315
Calcium (% Daily Value)	0.132077	0.132382
Iron (% Daily Value)	0.655000	0.653167

	Sodium	...	Carbohydrates \
Calories	0.712309	...	0.781539
Calories from Fat	0.846624	...	0.461672
Total Fat	0.846158	...	0.461213
Total Fat (% Daily Value)	0.846728	...	0.460516
Saturated Fat	0.584075	...	0.591261
Saturated Fat (% Daily Value)	0.588694	...	0.591322
Trans Fat	0.187580	...	0.463250
Cholesterol	0.624362	...	0.270977
Cholesterol (% Daily Value)	0.623320	...	0.269300
Sodium	1.000000	...	0.200796
Sodium (% Daily Value)	0.999929	...	0.202426
Carbohydrates	0.200796	...	1.000000
Carbohydrates (% Daily Value)	0.201032	...	0.999620
Dietary Fiber	0.694389	...	0.224577
Dietary Fiber (% Daily Value)	0.689995	...	0.228257
Sugars	-0.426536	...	0.762362
Protein	0.869802	...	0.352122
Vitamin A (% Daily Value)	0.083068	...	0.083802
Vitamin C (% Daily Value)	-0.030769	...	-0.034724



Calcium (% Daily Value)	-0.024074 ...	0.589699
Iron (% Daily Value)	0.871593 ...	0.210241

	Carbohydrates (% Daily Value)	Dietary Fiber
\		
Calories	0.781242	0.538894
Calories from Fat	0.461463	0.581274
Total Fat	0.461005	0.580837
Total Fat (% Daily Value)	0.460298	0.580592
Saturated Fat	0.591743	0.351818
Saturated Fat (% Daily Value)	0.591655	0.356831
Trans Fat	0.462891	0.054918
Cholesterol	0.272662	0.435575
Cholesterol (% Daily Value)	0.270992	0.434940
Sodium	0.201032	0.694389
Sodium (% Daily Value)	0.202663	0.693913
Carbohydrates	0.999620	0.224577
Carbohydrates (% Daily Value)	1.000000	0.224058
Dietary Fiber	0.224058	1.000000
Dietary Fiber (% Daily Value)	0.227285	0.986350
Sugars	0.762282	-0.295178
Protein	0.352178	0.641345
Vitamin A (% Daily Value)	0.083376	0.340518
Vitamin C (% Daily Value)	-0.035450	0.141935
Calcium (% Daily Value)	0.590263	0.028711
Iron (% Daily Value)	0.210643	0.740411

	Dietary Fiber (% Daily Value)	Sugars	\
Calories	0.540014	0.259598	
Calories from Fat	0.575621	-0.115285	
Total Fat	0.575206	-0.115446	
Total Fat (% Daily Value)	0.575033	-0.115761	
Saturated Fat	0.347152	0.197734	
Saturated Fat (% Daily Value)	0.351797	0.195928	
Trans Fat	0.058301	0.334756	
Cholesterol	0.440266	-0.135518	
Cholesterol (% Daily Value)	0.439814	-0.136459	
Sodium	0.689995	-0.426536	
Sodium (% Daily Value)	0.689464	-0.424943	
Carbohydrates	0.228257	0.762362	
Carbohydrates (% Daily Value)	0.227285	0.762282	
Dietary Fiber	0.986350	-0.295178	
Dietary Fiber (% Daily Value)	1.000000	-0.287014	
Sugars	-0.287014	1.000000	
Protein	0.656648	-0.179940	
Vitamin A (% Daily Value)	0.361380	0.048488	
Vitamin C (% Daily Value)	0.150019	-0.069847	
Calcium (% Daily Value)	0.052359	0.600093	
Iron (% Daily Value)	0.737814	-0.364767	

	Protein	Vitamin A (% Daily Value)	\
Calories	0.787847	0.108844	
Calories from Fat	0.807913	0.056731	
Total Fat	0.807773	0.054434	
Total Fat (% Daily Value)	0.807922	0.054038	
Saturated Fat	0.603028	0.064972	

Saturated Fat (% Daily Value)	0.606581	0.065376
Trans Fat	0.388249	0.075833
Cholesterol	0.561561	0.080239
Cholesterol (% Daily Value)	0.560957	0.080059
Sodium	0.869802	0.083068
Sodium (% Daily Value)	0.869870	0.083259
Carbohydrates	0.352122	0.083802
Carbohydrates (% Daily Value)	0.352178	0.083376
Dietary Fiber	0.641345	0.340518
Dietary Fiber (% Daily Value)	0.656648	0.361380
Sugars	-0.179940	0.048488
Protein	1.000000	0.214098
Vitamin A (% Daily Value)	0.214098	1.000000
Vitamin C (% Daily Value)	-0.045777	0.069171
Calcium (% Daily Value)	0.327971	0.179190
Iron (% Daily Value)	0.792719	0.137879

	Vitamin C (% Daily Value)	\
Calories	-0.068747	
Calories from Fat	-0.087331	
Total Fat	-0.089354	
Total Fat (% Daily Value)	-0.089353	
Saturated Fat	-0.179672	
Saturated Fat (% Daily Value)	-0.178059	
Trans Fat	-0.076612	
Cholesterol	-0.082978	
Cholesterol (% Daily Value)	-0.083315	
Sodium	-0.030769	
Sodium (% Daily Value)	-0.030945	
Carbohydrates	-0.034724	
Carbohydrates (% Daily Value)	-0.035450	
Dietary Fiber	0.141935	
Dietary Fiber (% Daily Value)	0.150019	
Sugars	-0.069847	
Protein	-0.045777	
Vitamin A (% Daily Value)	0.069171	
Vitamin C (% Daily Value)	1.000000	
Calcium (% Daily Value)	-0.215380	
Iron (% Daily Value)	0.001292	

	Calcium (% Daily Value)	Iron (% Daily Value)
Calories	0.428426	0.643552
Calories from Fat	0.161034	0.735894
Total Fat	0.162860	0.734685
Total Fat (% Daily Value)	0.162031	0.735478
Saturated Fat	0.403311	0.578062
Saturated Fat (% Daily Value)	0.401139	0.580488
Trans Fat	0.385331	0.325476
Cholesterol	0.132077	0.655000
Cholesterol (% Daily Value)	0.132382	0.653167
Sodium	-0.024074	0.871593
Sodium (% Daily Value)	-0.022145	0.870742
Carbohydrates	0.589699	0.210241
Carbohydrates (% Daily Value)	0.590263	0.210643
Dietary Fiber	0.028711	0.740411
Dietary Fiber (% Daily Value)	0.052359	0.737814

Sugars	0.600093	-0.364767
Protein	0.327971	0.792719
Vitamin A (% Daily Value)	0.179190	0.137879
Vitamin C (% Daily Value)	-0.215380	0.001292
Calcium (% Daily Value)	1.000000	0.034149
Iron (% Daily Value)	0.034149	1.000000

[21 rows x 21 columns]

```
In [12]: mode_value = sales.mode()  
         print("The mode is ", mode_value)
```

The mode is	Category	Item	Serving Size
Calories \			
0	Coffee & Tea	1% Low Fat Milk Jug	16 fl oz cup 0.0
1	NaN	Apple Slices	NaN NaN
2	NaN	Bacon Buffalo Ranch McChicken	NaN NaN
3	NaN	Bacon Cheddar McChicken	NaN NaN
4	NaN	Bacon Clubhouse Burger	NaN NaN
..	...	...	...
255	NaN	Sweet Tea (Medium)	NaN NaN
256	NaN	Sweet Tea (Small)	NaN NaN
257	NaN	Vanilla Shake (Large)	NaN NaN
258	NaN	Vanilla Shake (Medium)	NaN NaN
259	NaN	Vanilla Shake (Small)	NaN NaN

Calories from Fat	Total Fat	Total Fat (% Daily Value)	Saturated Fat
\			
0	0.0	0.0	0.0
1	NaN	NaN	NaN
2	NaN	NaN	NaN
3	NaN	NaN	NaN
4	NaN	NaN	NaN
..	...	...	...
255	NaN	NaN	NaN
256	NaN	NaN	NaN
257	NaN	NaN	NaN
258	NaN	NaN	NaN
259	NaN	NaN	NaN

Saturated Fat (% Daily Value)	Trans Fat	...	Carbohydrates	\
0	0.0	0.0	...	0.0
1	NaN	NaN	...	NaN
2	NaN	NaN	...	NaN
3	NaN	NaN	...	NaN
4	NaN	NaN	...	NaN
..	...	...	...	...
255	NaN	NaN	...	NaN
256	NaN	NaN	...	NaN
257	NaN	NaN	...	NaN
258	NaN	NaN	...	NaN
259	NaN	NaN	...	NaN

Carbohydrates (% Daily Value)	Dietary Fiber	\
0	14.0	1.0
1	NaN	NaN
2	NaN	NaN
3	NaN	NaN
4	NaN	NaN
..	...	...
255	NaN	NaN
256	NaN	NaN
257	NaN	NaN
258	NaN	NaN
259	NaN	NaN

Dietary Fiber (% Daily Value)	Sugars	Protein	\
0	0.0	0.0	0.0

1	NaN	NaN	NaN
2	NaN	NaN	NaN
3	NaN	NaN	NaN
4	NaN	NaN	NaN
..	...	...	...
255	NaN	NaN	NaN
256	NaN	NaN	NaN
257	NaN	NaN	NaN
258	NaN	NaN	NaN
259	NaN	NaN	NaN

	Vitamin A (% Daily Value)	Vitamin C (% Daily Value)	\
0	0.0		0.0
1	NaN		NaN
2	NaN		NaN
3	NaN		NaN
4	NaN		NaN
..	...		...
255	NaN		NaN
256	NaN		NaN
257	NaN		NaN
258	NaN		NaN
259	NaN		NaN

	Calcium (% Daily Value)	Iron (% Daily Value)
0	0.0	0.0
1	NaN	NaN
2	NaN	NaN
3	NaN	NaN
4	NaN	NaN
..	...	...
255	NaN	NaN
256	NaN	NaN
257	NaN	NaN
258	NaN	NaN
259	NaN	NaN

[260 rows x 24 columns]

```
In [14]: #Items in each categories
sales['Category'].value_counts()
```

```
Out[14]: Category
Coffee & Tea      95
Breakfast         42
Smoothies & Shakes 28
Chicken & Fish    27
Beverages         27
Beef & Pork       15
Snacks & Sides    13
Desserts          7
Salads            6
Name: count, dtype: int64
```

```
In [15]: sales['Category'].nunique()
```

Out [15]: 9

```
In [16]: sales["Item"].nunique()
```

Out [16]: 260

## Highest to Lowest Vitamin A content in Items

```
In [18]: d=sales.pivot_table("Vitamin A (% Daily Value)",index=["Item"])
result=d.sort_values(("Vitamin A (% Daily Value)"),ascending=False)
result
```

Out [18]:

	Vitamin A (% Daily Value)
--	---------------------------

Item	
Premium Southwest Salad with Crispy Chicken	170.0
Premium Southwest Salad with Grilled Chicken	170.0
Premium Bacon Ranch Salad (without Chicken)	170.0
Premium Southwest Salad (without Chicken)	160.0
Premium Bacon Ranch Salad with Grilled Chicken	110.0
...	...
Minute Maid 100% Apple Juice Box	0.0
Medium French Fries	0.0
Chicken McNuggets (40 piece)	0.0
Diet Dr Pepper (Child)	0.0
Chicken McNuggets (20 piece)	0.0

260 rows × 1 columns

## Highest to Lowest Vitamin C content in Items

```
In [20]: d=sales.pivot_table("Vitamin C (% Daily Value)",index=["Item"])
result=d.sort_values(("Vitamin C (% Daily Value)"),ascending=False)
result
```

Out [20]:

Vitamin C (% Daily Value)	
Item	
Minute Maid Orange Juice (Large)	240.0
Minute Maid Orange Juice (Medium)	160.0
Apple Slices	160.0
Fruit & Maple Oatmeal without Brown Sugar	130.0
Fruit & Maple Oatmeal	130.0
...	...
Hotcakes and Sausage	0.0
Iced Caramel Mocha (Large)	0.0
Iced Caramel Mocha (Medium)	0.0
Iced Caramel Mocha (Small)	0.0
Vanilla Shake (Small)	0.0

260 rows × 1 columns

### Highest to Lowest Calcium content in Items

```
In [22]: d=sales.pivot_table("Calcium (% Daily Value)",index=["Item"])
result=d.sort_values(("Calcium (% Daily Value)"),ascending=False)
result
```

Out [22] :

Calcium (% Daily Value)	
Item	
Strawberry Shake (Large)	70.0
McFlurry with M&M's Candies (Medium)	70.0
Shamrock Shake (Large)	60.0
McFlurry with Reese's Peanut Butter Cups (Medium)	60.0
Vanilla Shake (Large)	60.0
...	...
Diet Coke (Child)	0.0
Diet Coke (Large)	0.0
Dr Pepper (Small)	0.0
Chicken McNuggets (4 piece)	0.0
Iced Tea (Child)	0.0

260 rows × 1 columns

### Highest to Lowest Iron content in Items

```
In [24]: d=sales.pivot_table("Iron (% Daily Value)",index=["Item"])
result=d.sort_values(("Iron (% Daily Value)"),ascending=False)
result
```



Out [24] :

Iron (% Daily Value)	
Item	
Big Breakfast with Hotcakes (Large Biscuit)	40.0
Big Breakfast with Hotcakes (Regular Biscuit)	40.0
Double Quarter Pounder with Cheese	35.0
Quarter Pounder with Bacon & Cheese	30.0
Quarter Pounder with Bacon Habanero Ranch	30.0
...	...
Iced Coffee with Sugar Free French Vanilla Syrup (Large)	0.0
Hot Caramel Sundae	0.0
Hazelnut Latte (Small)	0.0
Hazelnut Latte (Medium)	0.0
Vanilla Shake (Small)	0.0

260 rows × 1 columns

Cholesterol content highest to lowest

```
In [26]: a=sales.pivot_table("Cholesterol",index=["Item"])
result=a.sort_values(("Cholesterol"),ascending=False)
result
```

Out [26] :

Cholesterol	
Item	
Big Breakfast with Hotcakes (Regular Biscuit)	575.0
Big Breakfast with Hotcakes (Large Biscuit)	575.0
Big Breakfast (Large Biscuit)	555.0
Big Breakfast (Regular Biscuit)	555.0
Steak & Egg McMuffin	300.0
...	...
Diet Coke (Large)	0.0
Diet Coke (Child)	0.0
Iced Tea (Child)	0.0
Coffee (Small)	0.0
Minute Maid Orange Juice (Small)	0.0

260 rows × 1 columns

Sodium content highest to lowest

```
In [28]: b=sales.pivot_table("Sodium",index=["Item"])
result=b.sort_values(("Sodium"),ascending=False)
result
```

Out [28] :

	Sodium
Item	
Chicken McNuggets (40 piece)	3600.0
Big Breakfast with Hotcakes and Egg Whites (Large Biscuit)	2290.0
Big Breakfast with Hotcakes (Large Biscuit)	2260.0
Big Breakfast with Hotcakes and Egg Whites (Regular Biscuit)	2170.0
Big Breakfast with Hotcakes (Regular Biscuit)	2150.0
...	...
Coca-Cola Classic (Child)	0.0
Dasani Water Bottle	0.0
Minute Maid Orange Juice (Medium)	0.0
Apple Slices	0.0
Minute Maid Orange Juice (Small)	0.0

260 rows × 1 columns

Carbohydrates content highest to lowest

```
In [30]: c=sales.pivot_table("Carbohydrates",index=["Item"])
result=c.sort_values(("Carbohydrates"),ascending=True)
result
```

Out [30]:

### Carbohydrates

Item	
Iced Tea (Child)	0.0
Coffee (Large)	0.0
Diet Dr Pepper (Small)	0.0
Diet Dr Pepper (Medium)	0.0
Diet Dr Pepper (Large)	0.0
...	...
Shamrock Shake (Large)	135.0
Vanilla Shake (Large)	135.0
McFlurry with M&M's Candies (Medium)	139.0
Strawberry Shake (Large)	140.0
Chocolate Shake (Large)	141.0

260 rows × 1 columns

### Protein content highest to lowest

```
In [32]: d=sales.pivot_table("Protein",index=["Item"])
result=d.sort_values(("Protein"),ascending=False)
result
```

Out [32] :

Protein	
Item	
Chicken McNuggets (40 piece)	87.0
Double Quarter Pounder with Cheese	48.0
Chicken McNuggets (20 piece)	44.0
Bacon Clubhouse Grilled Chicken Sandwich	40.0
Premium Grilled Chicken Club Sandwich	40.0
...	...
Coffee (Medium)	0.0
Coffee (Large)	0.0
Coca-Cola Classic (Small)	0.0
Coca-Cola Classic (Medium)	0.0
Diet Coke (Large)	0.0

260 rows × 1 columns

```
In [33]: d=sales.pivot_table("Calories",index=["Item"])
result=d.sort_values(("Calories"),ascending=False)
result
```

Out [33] :

Calories	
Item	
Chicken McNuggets (40 piece)	1880.0
Big Breakfast with Hotcakes (Large Biscuit)	1150.0
Big Breakfast with Hotcakes (Regular Biscuit)	1090.0
Big Breakfast with Hotcakes and Egg Whites (Large Biscuit)	1050.0
Big Breakfast with Hotcakes and Egg Whites (Regular Biscuit)	990.0
...	...
Diet Coke (Large)	0.0
Coffee (Large)	0.0
Diet Coke (Child)	0.0
Coffee (Medium)	0.0
Diet Dr Pepper (Small)	0.0

260 rows × 1 columns

## Percentage of calories coming from fat, carbs, and protein

```
In [68]: sales['Fat_Calories'] = sales['Total Fat'] * 9
sales['Carb_Calories'] = sales['Carbohydrates'] * 4
sales['Protein_Calories'] = sales['Protein'] * 4

sales['Fat_Percentage'] = (sales['Fat_Calories'] / sales['Calories']) * 100
sales['Carb_Percentage'] = (sales['Carb_Calories'] / sales['Calories']) * 10
sales['Protein_Percentage'] = (sales['Protein_Calories'] / sales['Calories'])

print(sales[['Item', 'Fat_Percentage', 'Carb_Percentage', 'Protein_Percentage']])
```

	Item	Fat_Percentage	\
0	Egg McMuffin	39.000000	
1	Egg White Delight	28.800000	
2	Sausage McMuffin	55.945946	
3	Sausage McMuffin with Egg	56.000000	
4	Sausage McMuffin with Egg Whites	51.750000	
..	...	...	
255	McFlurry with Oreo Cookies (Small)	30.000000	
256	McFlurry with Oreo Cookies (Medium)	30.000000	
257	McFlurry with Oreo Cookies (Snack)	29.117647	
258	McFlurry with Reese's Peanut Butter Cups (Medium)	35.555556	
259	McFlurry with Reese's Peanut Butter Cups (Snack)	35.121951	

	Carb_Percentage	Protein_Percentage
0	41.333333	22.666667
1	48.000000	28.800000
2	31.351351	15.135135
3	26.666667	18.666667
4	30.000000	21.000000
..	...	...
255	62.745098	9.411765
256	61.449275	8.695652
257	62.352941	9.411765
258	56.296296	10.370370
259	55.609756	9.756098

[260 rows x 4 columns]

What is the average caloric content across all menu items?

```
In [75]: average_caloric_content=sales["Calories"].mean()
print("The average caloric content across all the menu items is",average_cal
```

The average caloric content across all the menu items is 368.2692307692308

Which menu items have the highest and lowest calorie counts

```
In [73]: max_calories = sales.loc[sales['Calories'].idxmax()]

min_calories = sales.loc[sales['Calories'].idxmin()]
print("Item with Highest Calories is ")
print(max_calories)
```

```
print("Item with Lowest Calories is")  
print(min_calories)
```

Item with Highest Calories is	
Category	Chicken & Fish
Item	Chicken McNuggets (40 piece)
Serving Size	22.8 oz (646 g)
Calories	1880
Calories from Fat	1060
Total Fat	118.0
Total Fat (% Daily Value)	182
Saturated Fat	20.0
Saturated Fat (% Daily Value)	101
Trans Fat	1.0
Cholesterol	265
Cholesterol (% Daily Value)	89
Sodium	3600
Sodium (% Daily Value)	150
Carbohydrates	118
Carbohydrates (% Daily Value)	39
Dietary Fiber	6
Dietary Fiber (% Daily Value)	24
Sugars	1
Protein	87
Vitamin A (% Daily Value)	0
Vitamin C (% Daily Value)	15
Calcium (% Daily Value)	8
Iron (% Daily Value)	25
Fat_Calories	1062.0
Carb_Calories	472
Protein_Calories	348
Fat_Percentage	56.489362
Carb_Percentage	25.106383
Protein_Percentage	18.510638

Name: 82, dtype: object

Item with Lowest Calories is	
Category	Beverages
Item	Diet Coke (Small)
Serving Size	16 fl oz cup
Calories	0
Calories from Fat	0
Total Fat	0.0
Total Fat (% Daily Value)	0
Saturated Fat	0.0
Saturated Fat (% Daily Value)	0
Trans Fat	0.0
Cholesterol	0
Cholesterol (% Daily Value)	0
Sodium	10
Sodium (% Daily Value)	0
Carbohydrates	0
Carbohydrates (% Daily Value)	0
Dietary Fiber	0
Dietary Fiber (% Daily Value)	0
Sugars	0
Protein	0
Vitamin A (% Daily Value)	0
Vitamin C (% Daily Value)	0
Calcium (% Daily Value)	0



Iron (% Daily Value)	0
Fat_Calories	0.0
Carb_Calories	0
Protein_Calories	0
Fat_Percentage	NaN
Carb_Percentage	NaN
Protein_Percentage	NaN
Name: 114, dtype: object	

Which items provide more than 500 calories per serving

```
In [71]: high_calorie_items= sales[sales["Calories"]>500]

print(high_calorie_items)
```

	Category	Item \
7	Breakfast	Bacon, Egg & Cheese Biscuit (Large Biscuit)
12	Breakfast	Sausage Biscuit with Egg (Regular Biscuit)
13	Breakfast	Sausage Biscuit with Egg (Large Biscuit)
15	Breakfast	Sausage Biscuit with Egg Whites (Large Biscuit)
18	Breakfast	Steak & Egg Biscuit (Regular Biscuit)
..	...	...
252	Smoothies & Shakes	McFlurry with M&M's Candies (Small)
253	Smoothies & Shakes	McFlurry with M&M's Candies (Medium)
255	Smoothies & Shakes	McFlurry with Oreo Cookies (Small)
256	Smoothies & Shakes	McFlurry with Oreo Cookies (Medium)
258	Smoothies & Shakes	McFlurry with Reese's Peanut Butter Cups (Medium)

	Serving Size	Calories	Calories from Fat	Total Fat \
7	5.8 oz (164 g)	520	270	30.0
12	5.7 oz (163 g)	510	290	33.0
13	6.2 oz (177 g)	570	330	37.0
15	6.4 oz (181 g)	520	280	32.0
18	7.1 oz (201 g)	540	290	32.0
..	...	...	...	...
252	10.9 oz (310 g)	650	210	23.0
253	16.2 oz (460 g)	930	290	33.0
255	10.1 oz (285 g)	510	150	17.0
256	13.4 oz (381 g)	690	200	23.0
258	14.2 oz (403 g)	810	290	32.0

	Total Fat (% Daily Value)	Saturated Fat	Saturated Fat (% Daily Value)
7	47	14.0	68
12	50	14.0	71
13	57	15.0	74
15	49	13.0	65
18	49	16.0	78
..	...	...	...
252	35	14.0	72
253	50	20.0	102
255	26	9.0	44
256	35	12.0	58
258	50	15.0	76

	Trans Fat	...	Vitamin A (% Daily Value)	Vitamin C (% Daily Value)	\
7	0.0	...	15	8	
12	0.0	...	6	0	
13	0.0	...	10	0	
15	0.0	...	4	0	
18	1.0	...	10	2	
..	...	...	...	...	
252	0.5	...	15	0	
253	1.0	...	25	0	
255	0.5	...	15	0	
256	1.0	...	20	0	
258	1.0	...	20	0	

	Calcium (% Daily Value)	Iron (% Daily Value)	Fat_Calories \
7	20	20	270.0
12	10	20	297.0

13	10	20	333.0
15	8	15	288.0
18	20	25	288.0
..	...	...	...
252	45	8	207.0
253	70	10	297.0
255	40	8	153.0
256	50	10	207.0
258	60	6	288.0

	Carb_Calories	Protein_Calories	Fat_Percentage	Carb_Percentage \
7	172	76	51.923077	33.076923
12	144	72	58.235294	28.235294
13	168	72	58.421053	29.473684
15	160	72	55.384615	30.769231
18	152	100	53.333333	28.148148
..	...	...	...	...
252	384	52	31.846154	59.076923
253	556	80	31.935484	59.784946
255	320	48	30.000000	62.745098
256	424	60	30.000000	61.449275
258	456	84	35.555556	56.296296

	Protein_Percentage
7	14.615385
12	14.117647
13	12.631579
15	13.846154
18	18.518519
..	...
252	8.000000
253	8.602151
255	9.411765
256	8.695652
258	10.370370

[63 rows x 30 columns]

What is the average sugar content in the beverages offered at McDonald's

```
In [77]: average_sugar_content=sales["Sugars"].mean()
print("The average sugar content across all the menu items is",average_sugar
```

The average sugar content across all the menu items is 29.423076923076923

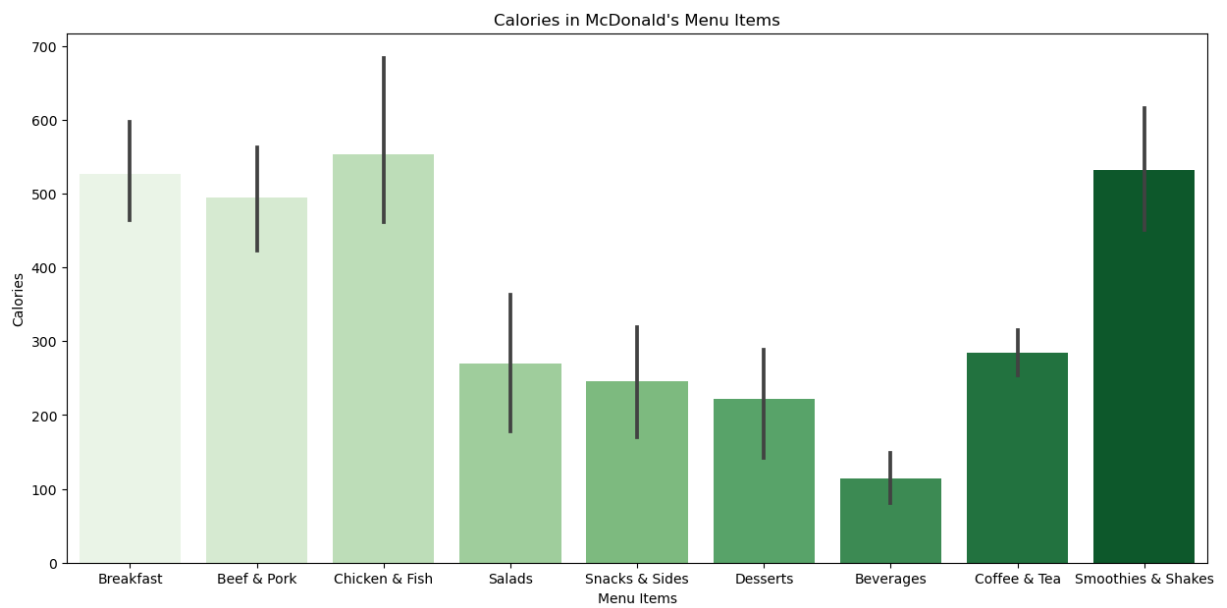
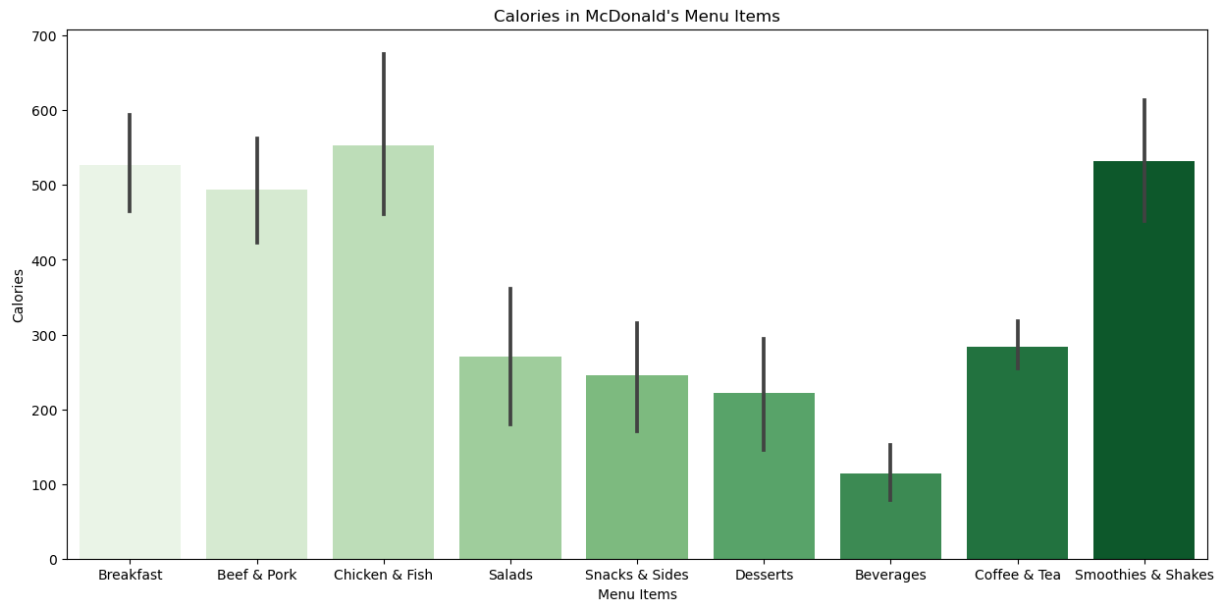
```
In [79]: %matplotlib inline
```

## Graphically representation

What are the calorie counts of different McDonald's menu categories (e.g., burgers, salads, beverages)?

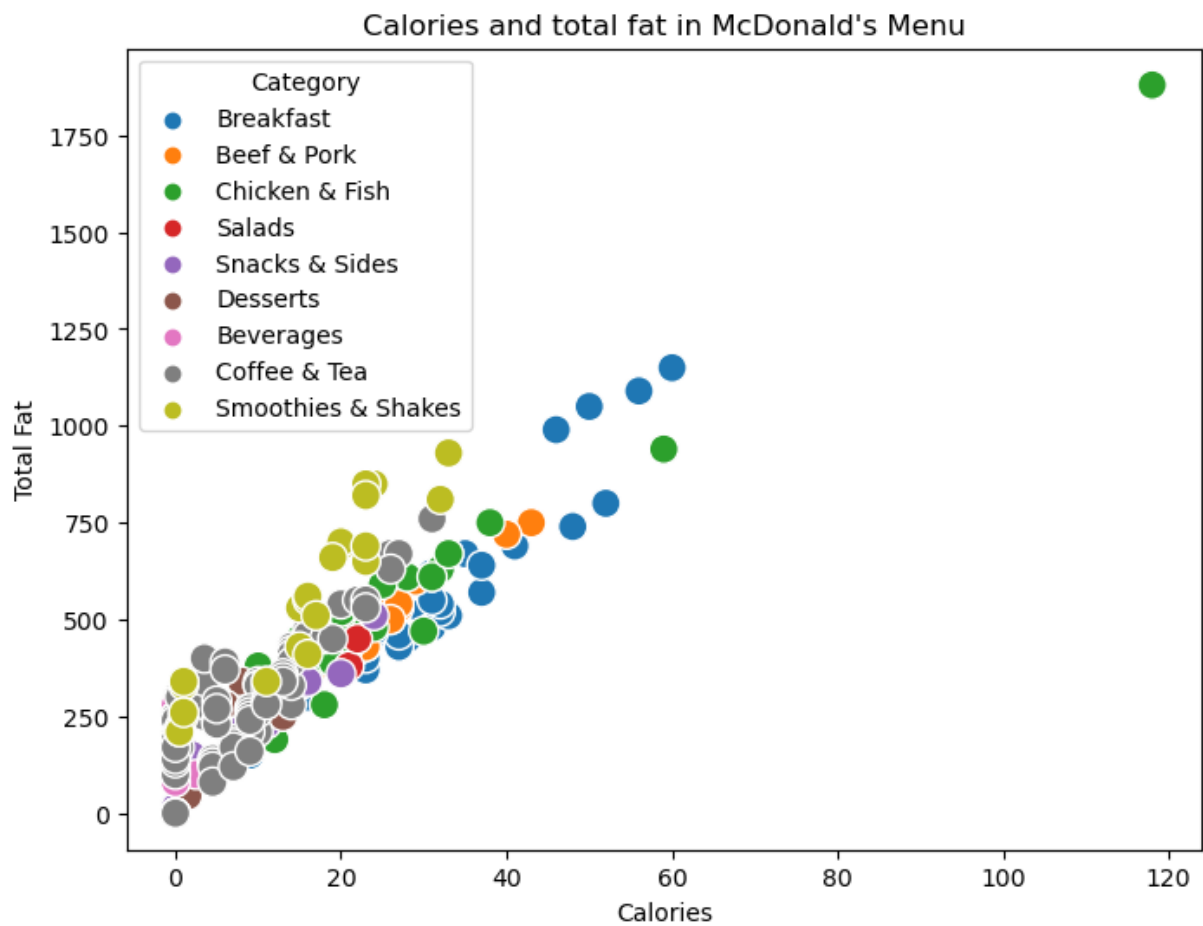
```
In [83]: plt.figure(figsize=(15,7))
sns.barplot(x="Category",y="Calories", data=sales,palette="Greens")
plt.title('Calories in McDonald\'s Menu Items')
```

```
plt.xlabel('Menu Items')
plt.ylabel('Calories')
plt.show()
```



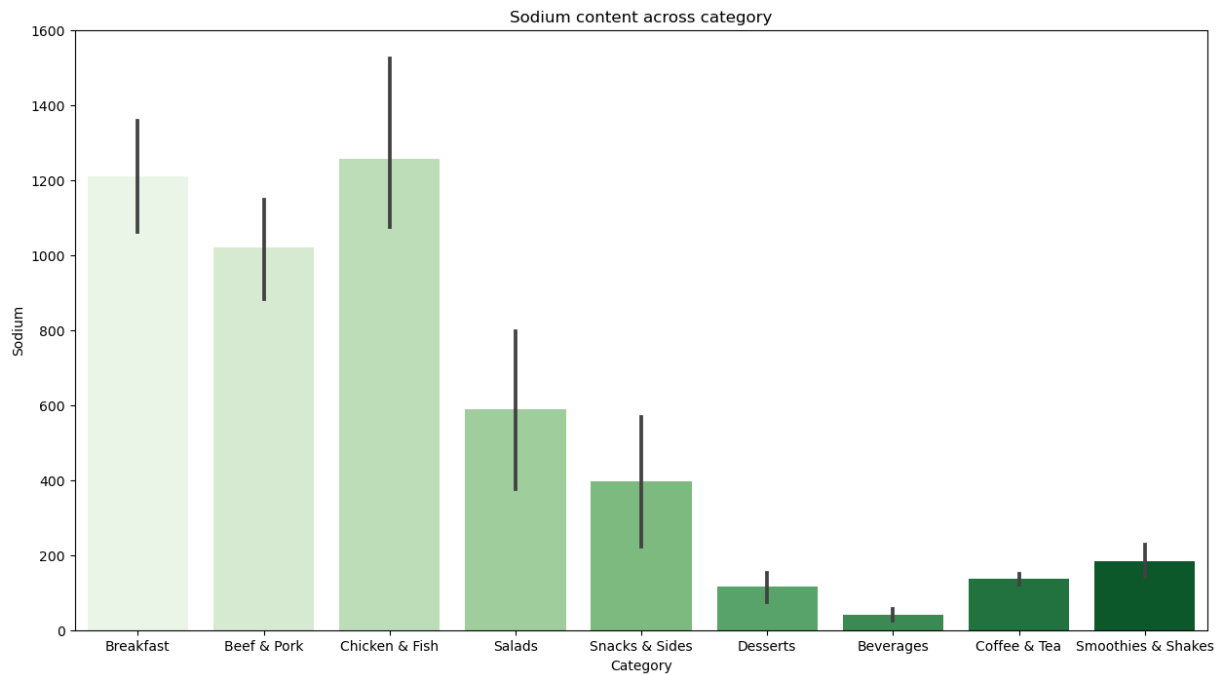
What is the relationship between Calories and Total Fat across McDonald's menu items?

```
In [86]: plt.figure(figsize=(8,6))
sns.scatterplot(y="Calories",x="Total Fat",data=sales,hue="Category",s=150)
plt.title("Calories and total fat in McDonald's Menu")
plt.xlabel('Calories')
plt.ylabel('Total Fat')
plt.show()
```

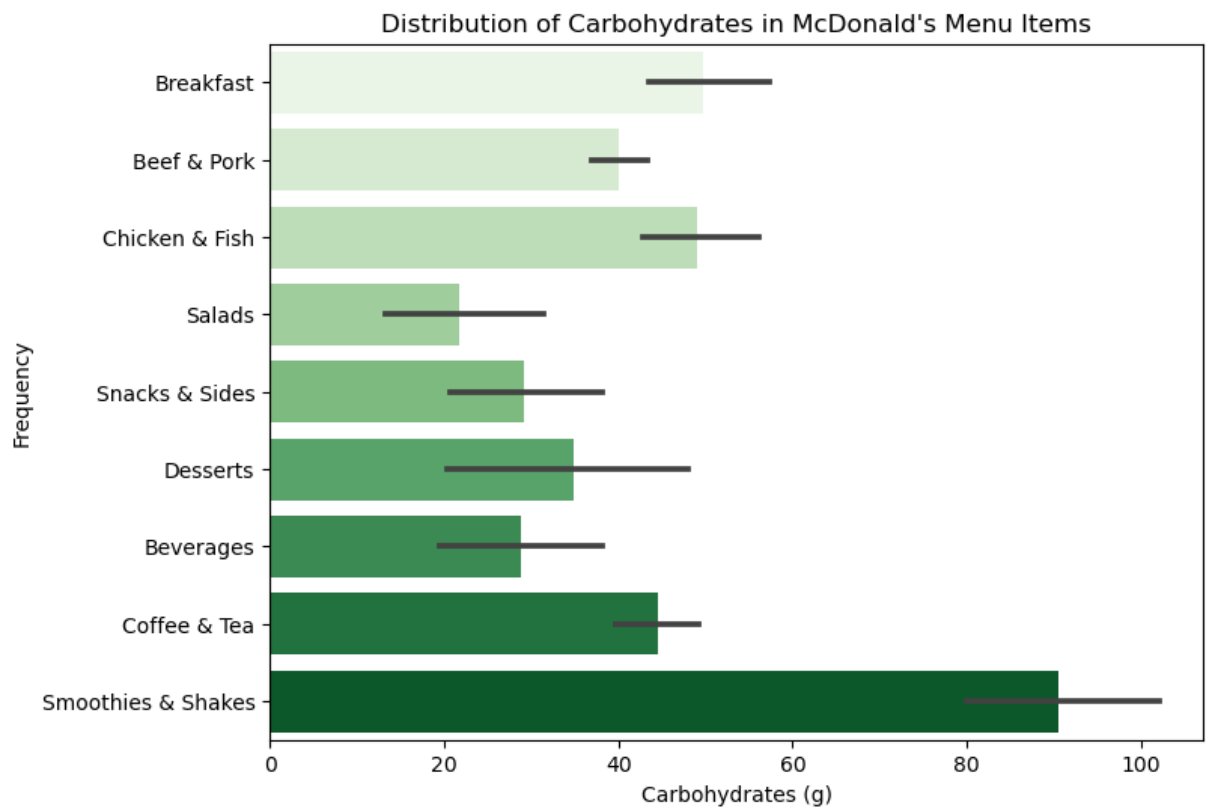


How does the Sodium content vary across different Menu Category?

```
In [89]: plt.figure(figsize=(15,8))
sns.barplot(x="Category",y="Sodium",data=sales,palette="Greens")
plt.title("Sodium content across category")
plt.xlabel("Category")
plt.ylabel("Sodium")
plt.show()
```

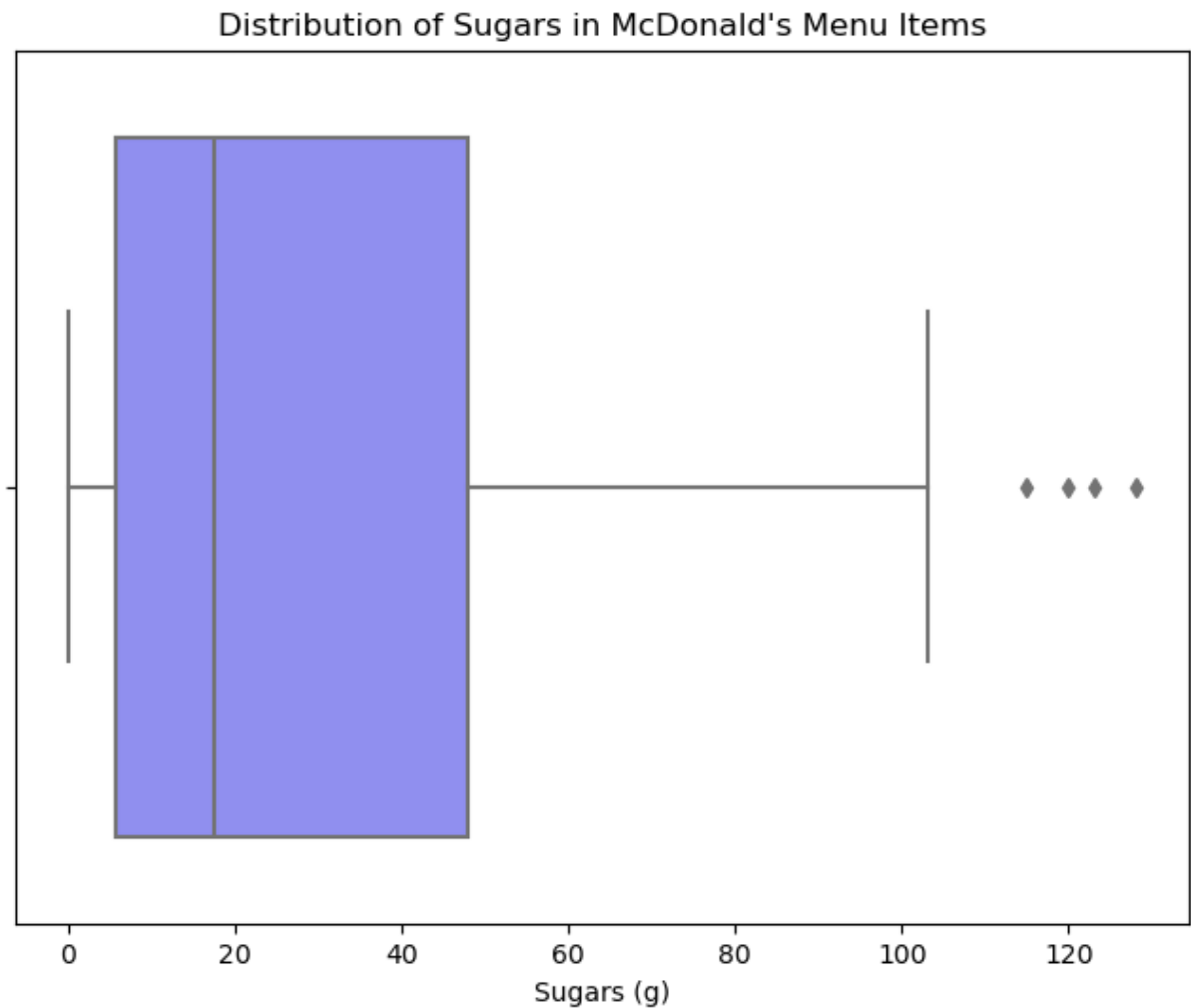


```
In [115... plt.figure(figsize=(8, 6))
sns.barplot(data=sales, y="Category", x="Carbohydrates", palette='Greens')
plt.title('Distribution of Carbohydrates in McDonald\'s Menu Items')
plt.xlabel('Carbohydrates (g)')
plt.ylabel('Frequency')
plt.show()
```



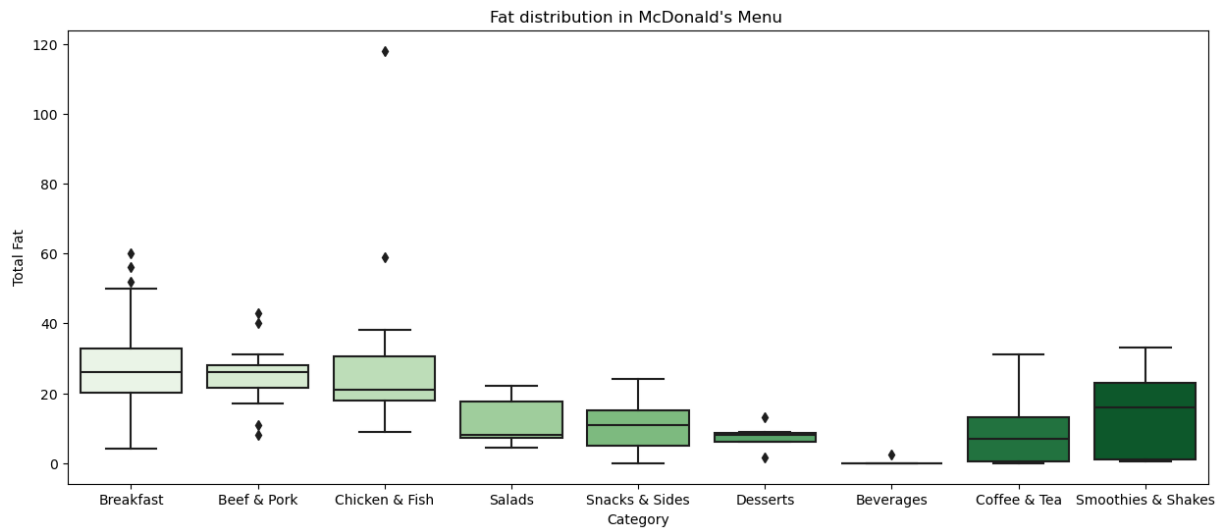
Outlinear in sugar

```
In [147... plt.figure(figsize=(8, 6))
sns.boxplot(x='Sugars', data=sales, palette='cool')
plt.title('Distribution of Sugars in McDonald\'s Menu Items')
plt.xlabel('Sugars (g)')
plt.show()
```



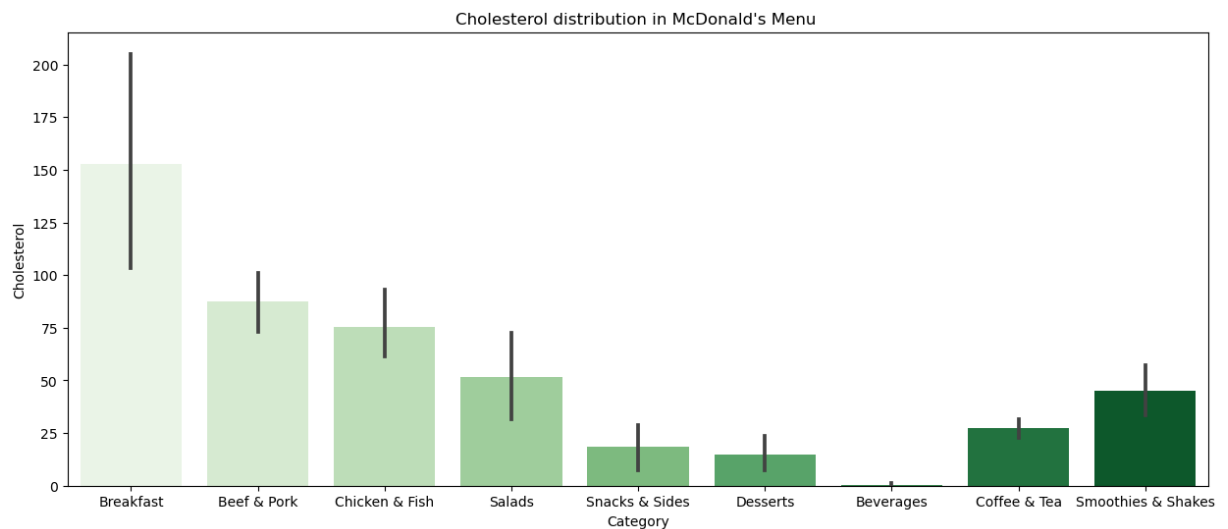
Distribution of Total Fat across different categories of McDonald's menu

```
In [186... plt.figure(figsize=(15, 6))
sns.boxplot(x='Category', y="Total Fat", data=sales, palette="Greens")
plt.title('Fat distribution in McDonald\'s Menu ')
plt.xlabel('Category')
plt.ylabel('Total Fat')
plt.show()
```



Distribution of Cholesterol across different categories of McDonald's menu

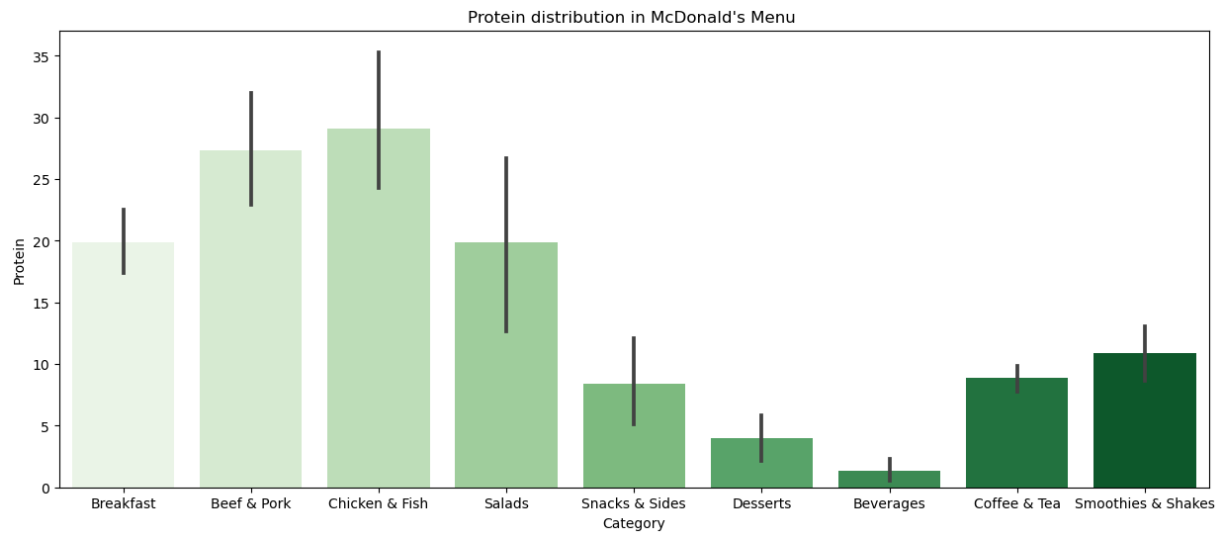
```
In [188... plt.figure(figsize=(15, 6))
sns.barplot(x='Category', y="Cholesterol", data=sales,palette="Greens")
plt.title('Cholesterol distribution in McDonald\'s Menu ')
plt.xlabel('Category')
plt.ylabel('Cholesterol')
plt.show()
```



Distribution of protein across different categories of McDonald's menu

```
In [191... plt.figure(figsize=(15, 6))
sns.barplot(x='Category', y="Protein", data=sales,palette="Greens")
plt.title('Protein distribution in McDonald\'s Menu ')
plt.xlabel('Category')
plt.ylabel('Protein')
plt.show()
```





This notebook contains the analysis of nutritional data for McDonald's menu items. The objectives were to identify the healthiest items

```
In [1]: pip install -U notebook-as-pdf
```

Collecting notebook-as-pdfNote: you may need to restart the kernel to use updated packages.

```
Downloading notebook_as_pdf-0.5.0-py3-none-any.whl.metadata (2.4 kB)
Requirement already satisfied: nbconvert in c:\users\sharm\anaconda3\lib\site-packages (from notebook-as-pdf) (7.10.0)
Collecting pypeteer (from notebook-as-pdf)
  Downloading pypeteer-2.0.0-py3-none-any.whl.metadata (7.1 kB)
Collecting PyPDF2 (from notebook-as-pdf)
  Downloading pypdf2-3.0.1-py3-none-any.whl.metadata (6.8 kB)
Requirement already satisfied: beautifulsoup4 in c:\users\sharm\anaconda3\lib\site-packages (from nbconvert->notebook-as-pdf) (4.12.2)
Requirement already satisfied: bleach!=5.0.0 in c:\users\sharm\anaconda3\lib\site-packages (from nbconvert->notebook-as-pdf) (4.1.0)
Requirement already satisfied: defusedxml in c:\users\sharm\anaconda3\lib\site-packages (from nbconvert->notebook-as-pdf) (0.7.1)
Requirement already satisfied: Jinja2>=3.0 in c:\users\sharm\anaconda3\lib\site-packages (from nbconvert->notebook-as-pdf) (3.1.3)
Requirement already satisfied: jupyter-core>=4.7 in c:\users\sharm\anaconda3\lib\site-packages (from nbconvert->notebook-as-pdf) (5.5.0)
Requirement already satisfied: jupyterlab-pygments in c:\users\sharm\anaconda3\lib\site-packages (from nbconvert->notebook-as-pdf) (0.1.2)
Requirement already satisfied: MarkupSafe>=2.0 in c:\users\sharm\anaconda3\lib\site-packages (from nbconvert->notebook-as-pdf) (2.1.3)
Requirement already satisfied: mistune<4,>=2.0.3 in c:\users\sharm\anaconda3\lib\site-packages (from nbconvert->notebook-as-pdf) (2.0.4)
Requirement already satisfied: nbclient>=0.5.0 in c:\users\sharm\anaconda3\lib\site-packages (from nbconvert->notebook-as-pdf) (0.8.0)
Requirement already satisfied: nbformat>=5.7 in c:\users\sharm\anaconda3\lib\site-packages (from nbconvert->notebook-as-pdf) (5.9.2)
Requirement already satisfied: packaging in c:\users\sharm\anaconda3\lib\site-packages (from nbconvert->notebook-as-pdf) (23.1)
Requirement already satisfied: pandocfilters>=1.4.1 in c:\users\sharm\anaconda3\lib\site-packages (from nbconvert->notebook-as-pdf) (1.5.0)
Requirement already satisfied: pygments>=2.4.1 in c:\users\sharm\anaconda3\lib\site-packages (from nbconvert->notebook-as-pdf) (2.15.1)
Requirement already satisfied: tinycss2 in c:\users\sharm\anaconda3\lib\site-packages (from nbconvert->notebook-as-pdf) (1.2.1)
Requirement already satisfied: traitlets>=5.1 in c:\users\sharm\anaconda3\lib\site-packages (from nbconvert->notebook-as-pdf) (5.7.1)
Requirement already satisfied: appdirs<2.0.0,>=1.4.3 in c:\users\sharm\anaconda3\lib\site-packages (from pypeteer->notebook-as-pdf) (1.4.4)
Requirement already satisfied: certifi>=2023 in c:\users\sharm\anaconda3\lib\site-packages (from pypeteer->notebook-as-pdf) (2024.6.2)
Requirement already satisfied: importlib-metadata>=1.4 in c:\users\sharm\anaconda3\lib\site-packages (from pypeteer->notebook-as-pdf) (7.0.1)
Collecting pyee<12.0.0,>=11.0.0 (from pypeteer->notebook-as-pdf)
  Downloading pyee-11.1.1-py3-none-any.whl.metadata (2.8 kB)
Requirement already satisfied: tqdm<5.0.0,>=4.42.1 in c:\users\sharm\anaconda3\lib\site-packages (from pypeteer->notebook-as-pdf) (4.65.0)
Collecting urllib3<2.0.0,>=1.25.8 (from pypeteer->notebook-as-pdf)
  Downloading urllib3-1.26.20-py2.py3-none-any.whl.metadata (50 kB)
----- 0.0/50.1 kB ? eta -:-:--
----- 30.7/50.1 kB 1.3 MB/s eta 0:00:
01 ----- 50.1/50.1 kB 642.7 kB/s eta 0:00:
```

00

Collecting websockets<11.0,>=10.0 (from pypeteer->notebook-as-pdf)

Downloading websockets-10.4-cp311-cp311-win\_amd64.whl.metadata (6.4 kB)

Requirement already satisfied: six>=1.9.0 in c:\users\sharm\anaconda3\lib\site-packages (from bleach!=5.0.0->nbconvert->notebook-as-pdf) (1.16.0)

Requirement already satisfied: webencodings in c:\users\sharm\anaconda3\lib\site-packages (from bleach!=5.0.0->nbconvert->notebook-as-pdf) (0.5.1)

Requirement already satisfied: zipp>=0.5 in c:\users\sharm\anaconda3\lib\site-packages (from importlib-metadata>=1.4->pypeteer->notebook-as-pdf) (3.17.0)

Requirement already satisfied: platformdirs>=2.5 in c:\users\sharm\anaconda3\lib\site-packages (from jupyter-core>=4.7->nbconvert->notebook-as-pdf) (3.10.0)

Requirement already satisfied: pywin32>=300 in c:\users\sharm\anaconda3\lib\site-packages (from jupyter-core>=4.7->nbconvert->notebook-as-pdf) (305.1)

Requirement already satisfied: jupyter-client>=6.1.12 in c:\users\sharm\anaconda3\lib\site-packages (from nbclient>=0.5.0->nbconvert->notebook-as-pdf) (8.6.0)

Requirement already satisfied: fastjsonschema in c:\users\sharm\anaconda3\lib\site-packages (from nbformat>=5.7->nbconvert->notebook-as-pdf) (2.16.2)

Requirement already satisfied: jsonschema>=2.6 in c:\users\sharm\anaconda3\lib\site-packages (from nbformat>=5.7->nbconvert->notebook-as-pdf) (4.19.2)

Requirement already satisfied: typing-extensions in c:\users\sharm\anaconda3\lib\site-packages (from pyee<12.0.0,>=11.0.0->pypeteer->notebook-as-pdf) (4.12.2)

Requirement already satisfied: colorama in c:\users\sharm\anaconda3\lib\site-packages (from tqdm<5.0.0,>=4.42.1->pypeteer->notebook-as-pdf) (0.4.6)

Requirement already satisfied: soupsieve>1.2 in c:\users\sharm\anaconda3\lib\site-packages (from beautifulsoup4->nbconvert->notebook-as-pdf) (2.5)

Requirement already satisfied: attrs>=22.2.0 in c:\users\sharm\anaconda3\lib\site-packages (from jsonschema>=2.6->nbformat>=5.7->nbconvert->notebook-as-pdf) (23.1.0)

Requirement already satisfied: jsonschema-specifications>=2023.03.6 in c:\users\sharm\anaconda3\lib\site-packages (from jsonschema>=2.6->nbformat>=5.7->nbconvert->notebook-as-pdf) (2023.7.1)

Requirement already satisfied: referencing>=0.28.4 in c:\users\sharm\anaconda3\lib\site-packages (from jsonschema>=2.6->nbformat>=5.7->nbconvert->notebook-as-pdf) (0.30.2)

Requirement already satisfied: rpds-py>=0.7.1 in c:\users\sharm\anaconda3\lib\site-packages (from jsonschema>=2.6->nbformat>=5.7->nbconvert->notebook-as-pdf) (0.10.6)

Requirement already satisfied: python-dateutil>=2.8.2 in c:\users\sharm\anaconda3\lib\site-packages (from jupyter-client>=6.1.12->nbclient>=0.5.0->nbconvert->notebook-as-pdf) (2.8.2)

Requirement already satisfied: pyzmq>=23.0 in c:\users\sharm\anaconda3\lib\site-packages (from jupyter-client>=6.1.12->nbclient>=0.5.0->nbconvert->notebook-as-pdf) (25.1.2)

Requirement already satisfied: tornado>=6.2 in c:\users\sharm\anaconda3\lib\site-packages (from jupyter-client>=6.1.12->nbclient>=0.5.0->nbconvert->notebook-as-pdf) (6.3.3)

Downloading notebook\_as\_pdf-0.5.0-py3-none-any.whl (6.5 kB)

Downloading pypdf2-3.0.1-py3-none-any.whl (232 kB)

----- 0.0/232.6 kB ? eta -:-:-

----- 61.4/232.6 kB 1.7 MB/s eta 0:00:0

1

----- 61.4/232.6 kB 1.7 MB/s eta 0:00:0

1

```

----- 232.6/232.6 kB 1.8 MB/s eta 0:00:
00
Downloading pyppeteer-2.0.0-py3-none-any.whl (82 kB)
----- 0.0/82.9 kB ? eta -:--:--
----- 82.9/82.9 kB 4.5 MB/s eta 0:00:00
Downloading pyee-11.1.1-py3-none-any.whl (15 kB)
Downloading urllib3-1.26.20-py2.py3-none-any.whl (144 kB)
----- 0.0/144.2 kB ? eta -:--:--
----- 144.2/144.2 kB 2.9 MB/s eta 0:00:
00
Downloading websockets-10.4-cp311-cp311-win_amd64.whl (101 kB)
----- 0.0/101.4 kB ? eta -:--:--
----- 41.0/101.4 kB 2.0 MB/s eta 0:00:0
1
----- 51.2/101.4 kB 525.1 kB/s eta 0:00:
01
----- 51.2/101.4 kB 525.1 kB/s eta 0:00:
01
----- 101.4/101.4 kB 530.3 kB/s eta 0:00:
00
Installing collected packages: websockets, urllib3, PyPDF2, pyee, pyppeteer,
notebook-as-pdf
  Attempting uninstall: urllib3
    Found existing installation: urllib3 2.0.7
    Uninstalling urllib3-2.0.7:
      Successfully uninstalled urllib3-2.0.7
Successfully installed PyPDF2-3.0.1 notebook-as-pdf-0.5.0 pyee-11.1.1 pyppete
er-2.0.0 urllib3-1.26.20 websockets-10.4

```

In [ ]: