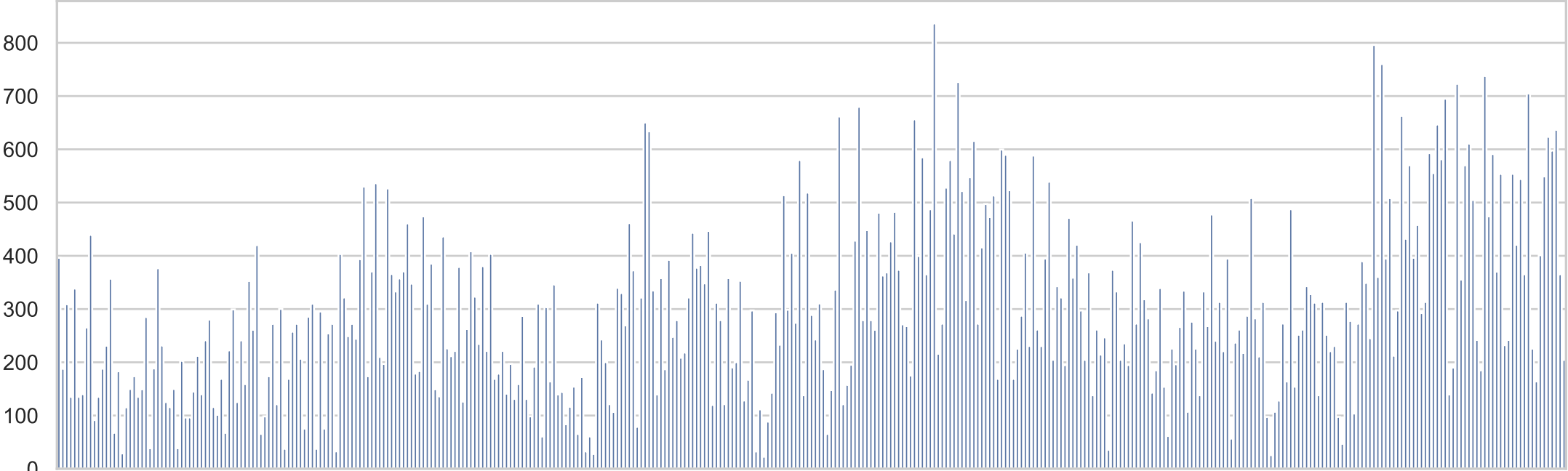


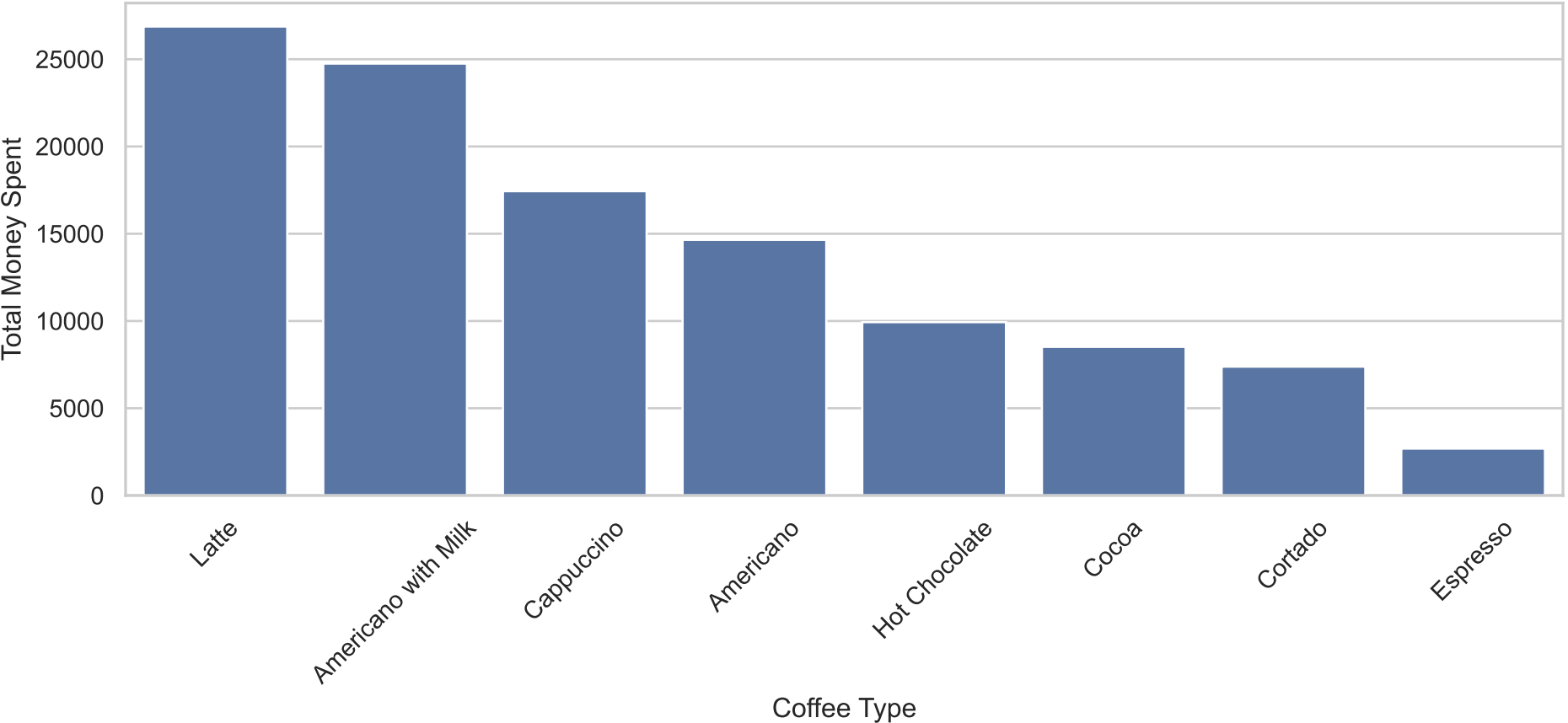
Daily Coffee Sales Over Time

Total Money Spent



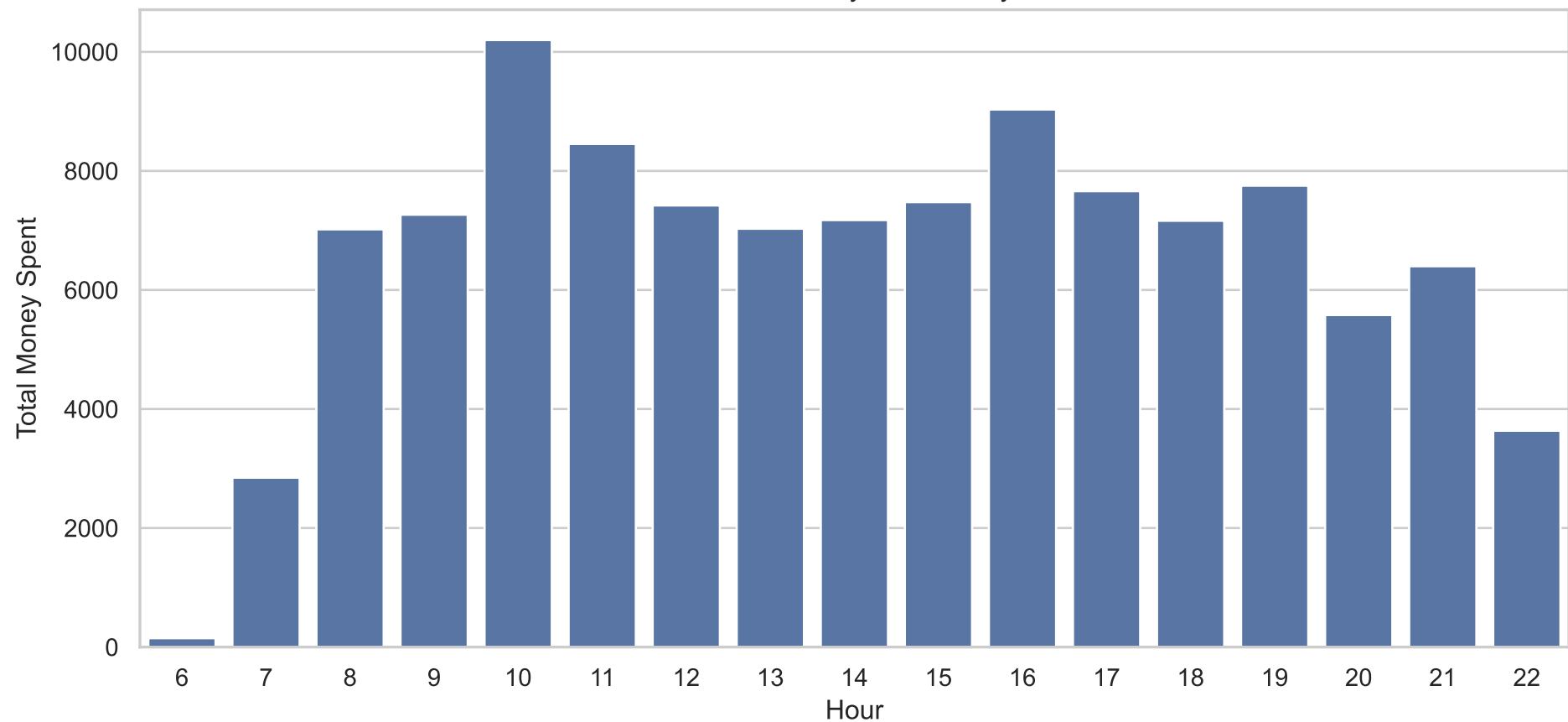
Date

Total Sales by Coffee Type



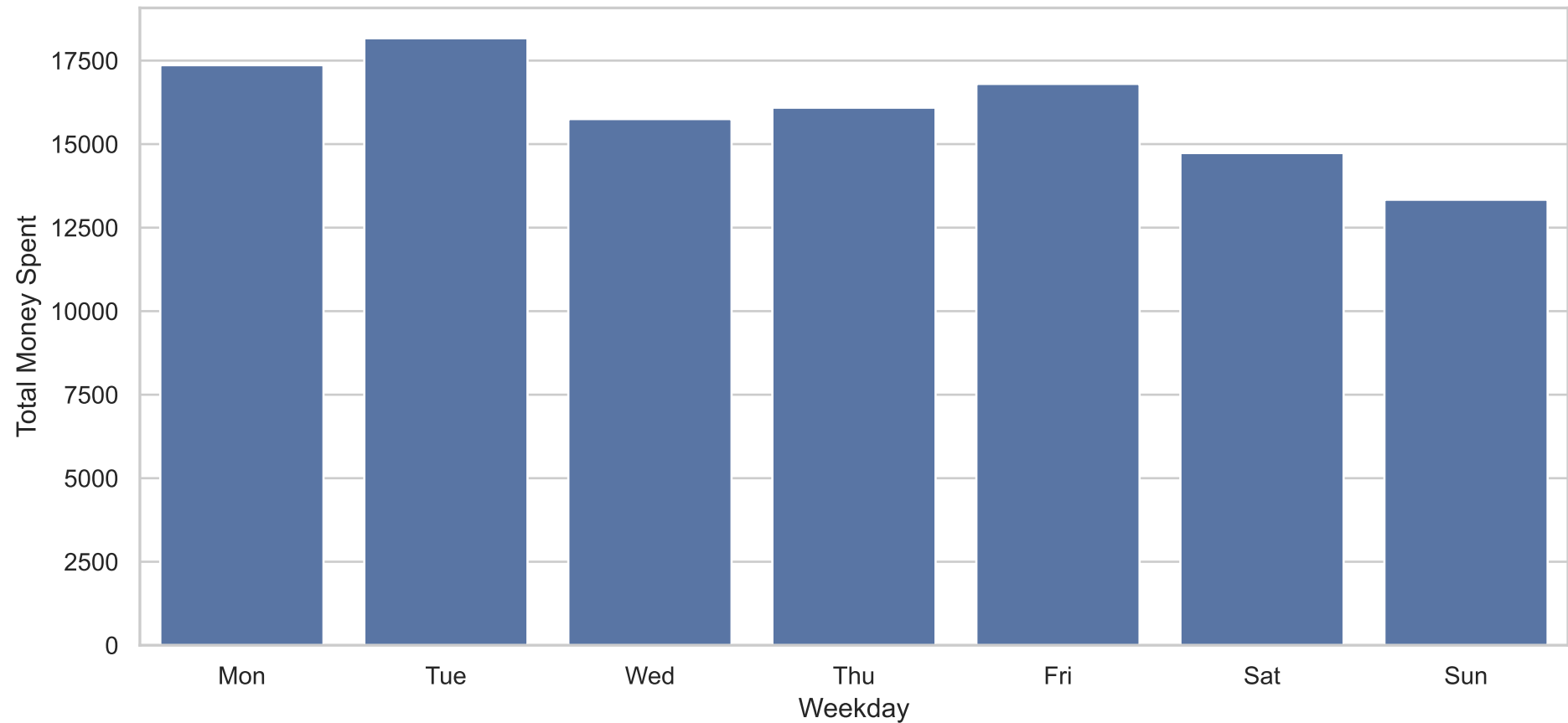
Total Sales by Hour of Day

Report Date: 2025-09-23 12:06
Report Version: v1.0

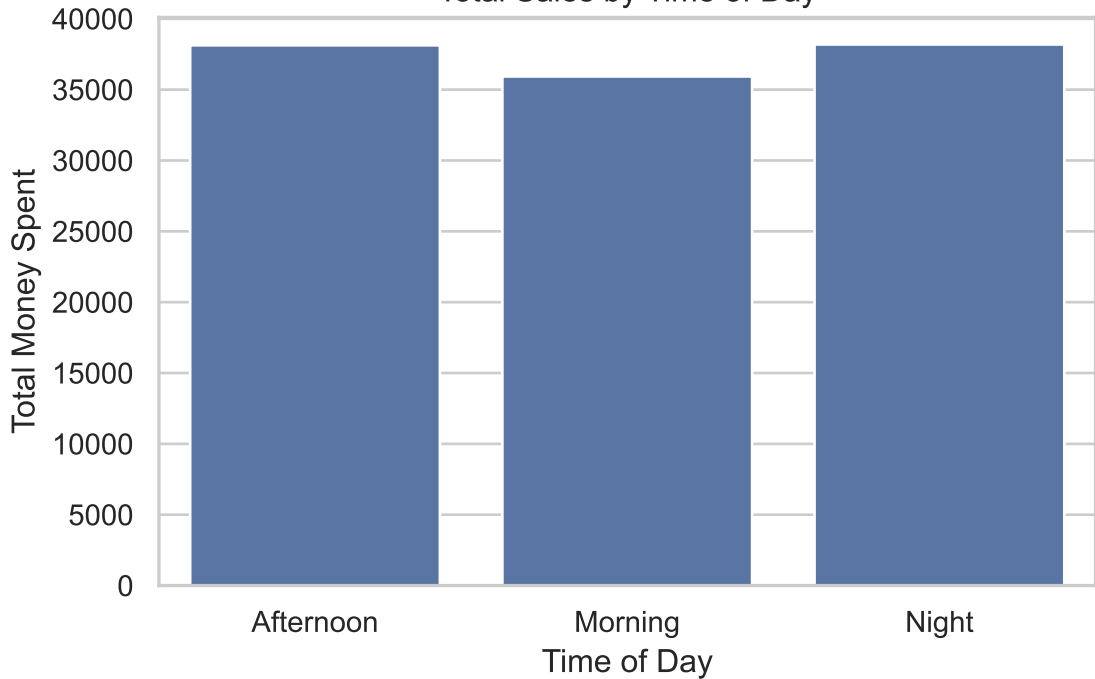


Total Sales in a Week

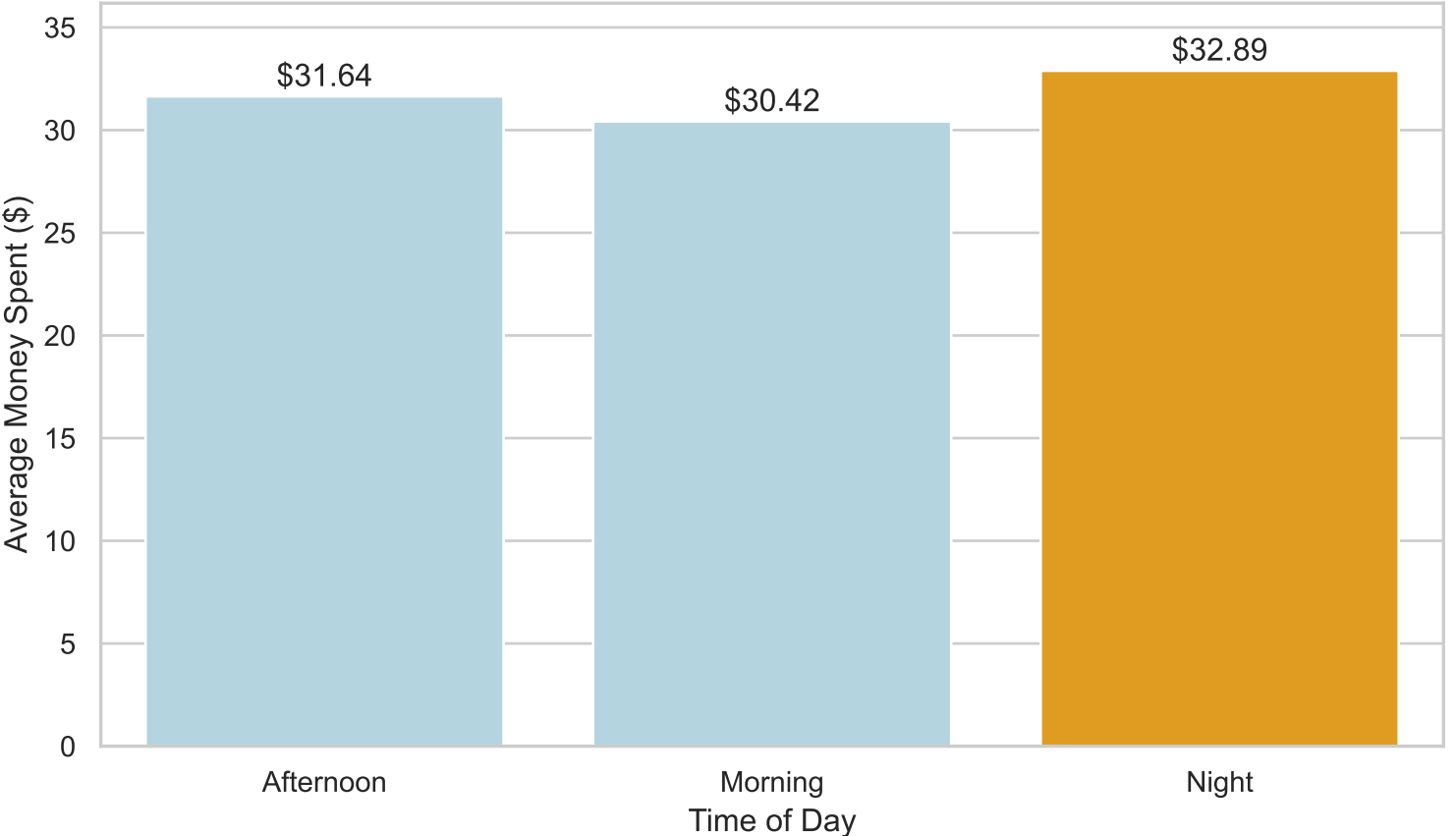
Report Date: 2025-09-23 12:06
Report Version: v1.0



Total Sales by Time of Day



Average Coffee Sales by Time of Day



Console Outputs & Results

first 5 rows:

	hour_of_day	cash_type	money	...	Monthsort	Date	Time
0	10	card	38.7	...	3	2024-03-01	10:15:50.520000
1	12	card	38.7	...	3	2024-03-01	12:19:22.539000
2	12	card	38.7	...	3	2024-03-01	12:20:18.089000
3	13	card	28.9	...	3	2024-03-01	13:46:33.006000
4	13	card	38.7	...	3	2024-03-01	13:48:14.626000

[5 rows x 11 columns]

dataset shape: (3547, 11)

<class 'pandas.core.frame.DataFrame'>

RangeIndex: 3547 entries, 0 to 3546

Data columns (total 11 columns):

#	Column	Non-Null Count	Dtype
0	hour_of_day	3547 non-null	int64
1	cash_type	3547 non-null	object
2	money	3547 non-null	float64
3	coffee_name	3547 non-null	object
4	Time_of_Day	3547 non-null	object
5	Weekday	3547 non-null	object
6	Month_name	3547 non-null	object
7	Weekdaysort	3547 non-null	int64
8	Monthsort	3547 non-null	int64
9	Date	3547 non-null	object
10	Time	3547 non-null	object

dtypes: float64(1), int64(3), object(7)

memory usage: 304.9+ KB

Info:

None

missing values per column:

hour_of_day	0
cash_type	0
money	0
coffee_name	0
Time_of_Day	0
Weekday	0
Month_name	0
Weekdaysort	0
Monthsort	0
Date	0
Time	0

dtype: int64

number of duplicate rows: 0

['Fri' 'Sat' 'Sun' 'Mon' 'Tue' 'Wed' 'Thu']

	Weekday	money
1	Mon	17363.10
5	Tue	18168.38
6	Wed	15750.46

Console Outputs & Results (cont.)

4 Thu 16091.40
0 Fri 16802.66
2 Sat 14733.52
3 Sun 13336.06

Time_of_Day money
0 Afternoon 38130.04
1 Morning 35929.20
2 Night 38186.34

	hour_of_day	money	Weekdaysort	Monthsort	date
count	3547.000000	3547.000000	3547.000000	3547.000000	3547
mean	14.185791	31.645216	3.845785	6.453905	2024-10-04 17:34:43.676346368
min	6.000000	18.120000	1.000000	1.000000	2024-03-01 00:00:00
25%	10.000000	27.920000	2.000000	3.000000	2024-07-17 12:00:00
50%	14.000000	32.820000	4.000000	7.000000	2024-10-10 00:00:00
75%	18.000000	35.760000	6.000000	10.000000	2025-01-11 00:00:00
max	22.000000	38.700000	7.000000	12.000000	2025-03-23 00:00:00
std	4.234010	4.877754	1.971501	3.500754	NaN

	hour_of_day	HourCategory	Weekday	IsWeekend
0	10	Morning	Fri	False
1	12	Afternoon	Fri	False
2	12	Afternoon	Fri	False
3	13	Afternoon	Fri	False
4	13	Afternoon	Fri	False
5	15	Afternoon	Fri	False
6	16	Afternoon	Fri	False
7	18	Night	Fri	False
8	19	Night	Fri	False
9	19	Night	Fri	False

t-statistic: -0.5004864855702297

p-value: 0.6167636384727557

Average weekend sale: 31.57433070866142

Average weekday sale: 31.66892400300978

Fail to reject null hypothesis: No significant difference

F-statistic: 78.21775635057196

p-value: 5.738878249433681e-34

Average Morning sale: 30.42269263336156

Average Afternoon sale: 31.6431867219917

Average Night sale: 32.89090439276485