Great Tables 1 in Python: Structure, Format and Style

2025-04-24

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| Code Along: Coffee Table |
| This workshop (and future video), with presenters Michael Chow and Rich Iannone, is all about using [Great Tables](https://posit-dev.github.io/great-tables/articles/intro.html) to make beautiful tables for publication and display purposes. We believe that effective tables have these things in common:   1. structuring that aids in the reading of the table 2. well-formatted values, fitting expectations for the field of study 3. styling that reduces time to insight and improves aesthetics  1 About The Instructors **Michael Chow, Senior Software Engineer, Posit**  Michael is a data scientist and software engineer. He has programmed in Python for well over a decade, and he obtained a PhD in cognitive psychology from Princeton University. His interests include statistical methods, skill acquisition, and human memory.  **Richard Iannone, Senior Software Engineer, Posit**  Richard is a software engineer and table enthusiast. He’s been vigorously working on making display tables easier to create/display in Python. And generally Rich enjoys creating open source packages so that people can great things in their own work. |

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| --- |
| Start |
| Setting up. |

import polars as pl  
import json  
import polars.selectors as cs  
import typing\_extensions  
from great\_tables import GT, loc, style

Importing the data.

# Load JSON file  
with open("coffee-sales.json", "r") as f:  
 raw\_data = json.load(f)  
  
# Extract column names  
columns = [col["name"] for col in raw\_data["columns"]]  
  
# Extract values and convert to rows  
values = list(zip(\*[col["values"] for col in raw\_data["columns"]]))  
  
# Convert to list of dictionaries while extracting only the list from 'monthly\_sales'  
data = []  
for row in values:  
 row\_dict = dict(zip(columns, row))  
   
 # Extract only the list from the "monthly\_sales" column  
 if "monthly\_sales" in row\_dict:  
 if isinstance(row\_dict["monthly\_sales"], dict) and "values" in row\_dict["monthly\_sales"]:  
 row\_dict["monthly\_sales"] = row\_dict["monthly\_sales"]["values"] # Extract only the list  
   
 data.append(row\_dict)  
  
# Create Polars DataFrame  
coffee\_sales = pl.DataFrame(data)  
  
coffee\_sales

| icon | product | revenue\_dollars | revenue\_pct | profit\_dollars | profit\_pct | monthly\_sales |
| --- | --- | --- | --- | --- | --- | --- |
| str | str | f64 | f64 | f64 | f64 | list[i64] |
| "grinder.png" | "Grinder" | 904500.0 | 0.03 | 567960.0 | 0.04 | [521, 494, … 751] |
| "moka-pot.png" | "Moka pot" | 2.04525e6 | 0.07 | 181080.0 | 0.01 | [4726, 4741, … 6283] |
| "cold-brew.png" | "Cold brew" | 288750.0 | 0.01 | 241770.0 | 0.02 | [244, 249, … 244] |
| "filter.png" | "Filter" | 404250.0 | 0.01 | 70010.0 | 0.0 | [2067, 1809, … 2744] |
| "drip-machine.png" | "Drip machine" | 2.632e6 | 0.09 | 1.37445e6 | 0.09 | [2137, 1623, … 2328] |
| … | … | … | … | … | … | … |
| "chemex.png" | "Chemex" | 3.13725e6 | 0.11 | 817680.0 | 0.06 | [4938, 4167, … 7220] |
| "scale.png" | "Scale" | 3.801e6 | 0.13 | 2.91029e6 | 0.2 | [1542, 1566, … 3180] |
| "kettle.png" | "Kettle" | 756250.0 | 0.03 | 617520.0 | 0.04 | [1139, 1023, … 1529] |
| "espresso-machine.png" | "Espresso Machine" | 8.406e6 | 0.29 | 3.63644e6 | 0.25 | [686, 840, … 2577] |
| null | "Total" | 2.94485e7 | 1.0 | 1.479315e7 | 1.0 | null |

|  |
| --- |
| GT() |
| Let’s get the data into Great Tables. |

gt\_tbl\_1 = GT(coffee\_sales)  
  
gt\_tbl\_1

| icon | product | revenue\_dollars | revenue\_pct | profit\_dollars | profit\_pct | monthly\_sales |
| --- | --- | --- | --- | --- | --- | --- |
| grinder.png | Grinder | 904500.0 | 0.03 | 567960.0 | 0.04 | [521, 494, 596, 613, 667, 748, 765, 686, 607, 594, 568, 751] |
| moka-pot.png | Moka pot | 2045250.0 | 0.07 | 181080.0 | 0.01 | [4726, 4741, 4791, 5506, 6156, 6619, 6868, 6026, 5304, 4884, 4648, 6283] |
| cold-brew.png | Cold brew | 288750.0 | 0.01 | 241770.0 | 0.02 | [244, 249, 438, 981, 1774, 2699, 2606, 2348, 1741, 896, 499, 244] |
| filter.png | Filter | 404250.0 | 0.01 | 70010.0 | 0.0 | [2067, 1809, 1836, 2123, 2252, 2631, 2562, 2367, 2164, 2195, 2070, 2744] |
| drip-machine.png | Drip machine | 2632000.0 | 0.09 | 1374450.0 | 0.09 | [2137, 1623, 1971, 2097, 2580, 2456, 2336, 2316, 2052, 1967, 1837, 2328] |
| aeropress.png | AeroPress | 2601500.0 | 0.09 | 1293780.0 | 0.09 | [6332, 5199, 6367, 7024, 7906, 8704, 8693, 7797, 6828, 6963, 6877, 9270] |
| pour-over.png | Pour over | 846000.0 | 0.03 | 364530.0 | 0.02 | [1562, 1291, 1511, 1687, 1940, 2177, 2141, 1856, 1715, 1806, 1601, 2165] |
| french-press.png | French press | 1113250.0 | 0.04 | 748120.0 | 0.05 | [3507, 2880, 3346, 3792, 3905, 4095, 4184, 4428, 3279, 3420, 3297, 4819] |
| cezve.png | Cezve | 2512500.0 | 0.09 | 1969520.0 | 0.13 | [12171, 11469, 11788, 13630, 15391, 16532, 17090, 14433, 12985, 12935, 11598, 15895] |
| chemex.png | Chemex | 3137250.0 | 0.11 | 817680.0 | 0.06 | [4938, 4167, 5235, 6000, 6358, 6768, 7112, 6249, 5605, 6076, 4980, 7220] |
| scale.png | Scale | 3801000.0 | 0.13 | 2910290.0 | 0.2 | [1542, 1566, 1681, 2028, 2425, 2549, 2569, 2232, 2036, 2089, 1693, 3180] |
| kettle.png | Kettle | 756250.0 | 0.03 | 617520.0 | 0.04 | [1139, 1023, 1087, 1131, 1414, 1478, 1456, 1304, 1140, 1233, 1193, 1529] |
| espresso-machine.png | Espresso Machine | 8406000.0 | 0.29 | 3636440.0 | 0.25 | [686, 840, 618, 598, 2148, 533, 797, 996, 1002, 668, 858, 2577] |
| None | Total | 29448500.0 | 1.0 | 14793150.0 | 1.0 | None |

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| --- |
| Structure Basics 1 |
| Add a title to the table to explain contents. |

gt\_tbl\_2 = gt\_tbl\_1.tab\_header(  
 title = "Coffee Equipment Sales for 2023"  
 )  
  
gt\_tbl\_2

| Coffee Equipment Sales for 2023 | | | | | | |
| --- | --- | --- | --- | --- | --- | --- |
| icon | product | revenue\_dollars | revenue\_pct | profit\_dollars | profit\_pct | monthly\_sales |
| grinder.png | Grinder | 904500.0 | 0.03 | 567960.0 | 0.04 | [521, 494, 596, 613, 667, 748, 765, 686, 607, 594, 568, 751] |
| moka-pot.png | Moka pot | 2045250.0 | 0.07 | 181080.0 | 0.01 | [4726, 4741, 4791, 5506, 6156, 6619, 6868, 6026, 5304, 4884, 4648, 6283] |
| cold-brew.png | Cold brew | 288750.0 | 0.01 | 241770.0 | 0.02 | [244, 249, 438, 981, 1774, 2699, 2606, 2348, 1741, 896, 499, 244] |
| filter.png | Filter | 404250.0 | 0.01 | 70010.0 | 0.0 | [2067, 1809, 1836, 2123, 2252, 2631, 2562, 2367, 2164, 2195, 2070, 2744] |
| drip-machine.png | Drip machine | 2632000.0 | 0.09 | 1374450.0 | 0.09 | [2137, 1623, 1971, 2097, 2580, 2456, 2336, 2316, 2052, 1967, 1837, 2328] |
| aeropress.png | AeroPress | 2601500.0 | 0.09 | 1293780.0 | 0.09 | [6332, 5199, 6367, 7024, 7906, 8704, 8693, 7797, 6828, 6963, 6877, 9270] |
| pour-over.png | Pour over | 846000.0 | 0.03 | 364530.0 | 0.02 | [1562, 1291, 1511, 1687, 1940, 2177, 2141, 1856, 1715, 1806, 1601, 2165] |
| french-press.png | French press | 1113250.0 | 0.04 | 748120.0 | 0.05 | [3507, 2880, 3346, 3792, 3905, 4095, 4184, 4428, 3279, 3420, 3297, 4819] |
| cezve.png | Cezve | 2512500.0 | 0.09 | 1969520.0 | 0.13 | [12171, 11469, 11788, 13630, 15391, 16532, 17090, 14433, 12985, 12935, 11598, 15895] |
| chemex.png | Chemex | 3137250.0 | 0.11 | 817680.0 | 0.06 | [4938, 4167, 5235, 6000, 6358, 6768, 7112, 6249, 5605, 6076, 4980, 7220] |
| scale.png | Scale | 3801000.0 | 0.13 | 2910290.0 | 0.2 | [1542, 1566, 1681, 2028, 2425, 2549, 2569, 2232, 2036, 2089, 1693, 3180] |
| kettle.png | Kettle | 756250.0 | 0.03 | 617520.0 | 0.04 | [1139, 1023, 1087, 1131, 1414, 1478, 1456, 1304, 1140, 1233, 1193, 1529] |
| espresso-machine.png | Espresso Machine | 8406000.0 | 0.29 | 3636440.0 | 0.25 | [686, 840, 618, 598, 2148, 533, 797, 996, 1002, 668, 858, 2577] |
| None | Total | 29448500.0 | 1.0 | 14793150.0 | 1.0 | None |

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| Structure Basics 2 |
| Group numerical columns with a spanner. One grouping should be for revenue columns, another should be for profit columns. |

gt\_tbl\_3 = gt\_tbl\_2.tab\_spanner(  
 label="Revenue", columns=cs.starts\_with("revenue")  
).tab\_spanner(   
 label="Profit", columns=cs.starts\_with("profit")  
)  
  
  
gt\_tbl\_3

| Coffee Equipment Sales for 2023 | | | | | | |
| --- | --- | --- | --- | --- | --- | --- |
| icon | product | Revenue | | Profit | | monthly\_sales |
| revenue\_dollars | revenue\_pct | profit\_dollars | profit\_pct |
| grinder.png | Grinder | 904500.0 | 0.03 | 567960.0 | 0.04 | [521, 494, 596, 613, 667, 748, 765, 686, 607, 594, 568, 751] |
| moka-pot.png | Moka pot | 2045250.0 | 0.07 | 181080.0 | 0.01 | [4726, 4741, 4791, 5506, 6156, 6619, 6868, 6026, 5304, 4884, 4648, 6283] |
| cold-brew.png | Cold brew | 288750.0 | 0.01 | 241770.0 | 0.02 | [244, 249, 438, 981, 1774, 2699, 2606, 2348, 1741, 896, 499, 244] |
| filter.png | Filter | 404250.0 | 0.01 | 70010.0 | 0.0 | [2067, 1809, 1836, 2123, 2252, 2631, 2562, 2367, 2164, 2195, 2070, 2744] |
| drip-machine.png | Drip machine | 2632000.0 | 0.09 | 1374450.0 | 0.09 | [2137, 1623, 1971, 2097, 2580, 2456, 2336, 2316, 2052, 1967, 1837, 2328] |
| aeropress.png | AeroPress | 2601500.0 | 0.09 | 1293780.0 | 0.09 | [6332, 5199, 6367, 7024, 7906, 8704, 8693, 7797, 6828, 6963, 6877, 9270] |
| pour-over.png | Pour over | 846000.0 | 0.03 | 364530.0 | 0.02 | [1562, 1291, 1511, 1687, 1940, 2177, 2141, 1856, 1715, 1806, 1601, 2165] |
| french-press.png | French press | 1113250.0 | 0.04 | 748120.0 | 0.05 | [3507, 2880, 3346, 3792, 3905, 4095, 4184, 4428, 3279, 3420, 3297, 4819] |
| cezve.png | Cezve | 2512500.0 | 0.09 | 1969520.0 | 0.13 | [12171, 11469, 11788, 13630, 15391, 16532, 17090, 14433, 12985, 12935, 11598, 15895] |
| chemex.png | Chemex | 3137250.0 | 0.11 | 817680.0 | 0.06 | [4938, 4167, 5235, 6000, 6358, 6768, 7112, 6249, 5605, 6076, 4980, 7220] |
| scale.png | Scale | 3801000.0 | 0.13 | 2910290.0 | 0.2 | [1542, 1566, 1681, 2028, 2425, 2549, 2569, 2232, 2036, 2089, 1693, 3180] |
| kettle.png | Kettle | 756250.0 | 0.03 | 617520.0 | 0.04 | [1139, 1023, 1087, 1131, 1414, 1478, 1456, 1304, 1140, 1233, 1193, 1529] |
| espresso-machine.png | Espresso Machine | 8406000.0 | 0.29 | 3636440.0 | 0.25 | [686, 840, 618, 598, 2148, 533, 797, 996, 1002, 668, 858, 2577] |
| None | Total | 29448500.0 | 1.0 | 14793150.0 | 1.0 | None |

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| Structure Basics 3 |
| Change Column labels for readability. The column names are: icon, product, revenue\_dollars, revenue\_pct, profit\_dollars, profit\_pct, and monthly\_sales. |

gt\_tbl\_4 = (  
 gt\_tbl\_3  
 .cols\_label(  
 revenue\_dollars="Amount",  
 revenue\_pct = "Percent",  
 profit\_dollars="Amount",  
 profit\_pct = "Percent",  
 monthly\_sales = "Monthly Sales"  
 )  
)  
  
gt\_tbl\_4

| Coffee Equipment Sales for 2023 | | | | | | |
| --- | --- | --- | --- | --- | --- | --- |
| icon | product | Revenue | | Profit | | Monthly Sales |
| Amount | Percent | Amount | Percent |
| grinder.png | Grinder | 904500.0 | 0.03 | 567960.0 | 0.04 | [521, 494, 596, 613, 667, 748, 765, 686, 607, 594, 568, 751] |
| moka-pot.png | Moka pot | 2045250.0 | 0.07 | 181080.0 | 0.01 | [4726, 4741, 4791, 5506, 6156, 6619, 6868, 6026, 5304, 4884, 4648, 6283] |
| cold-brew.png | Cold brew | 288750.0 | 0.01 | 241770.0 | 0.02 | [244, 249, 438, 981, 1774, 2699, 2606, 2348, 1741, 896, 499, 244] |
| filter.png | Filter | 404250.0 | 0.01 | 70010.0 | 0.0 | [2067, 1809, 1836, 2123, 2252, 2631, 2562, 2367, 2164, 2195, 2070, 2744] |
| drip-machine.png | Drip machine | 2632000.0 | 0.09 | 1374450.0 | 0.09 | [2137, 1623, 1971, 2097, 2580, 2456, 2336, 2316, 2052, 1967, 1837, 2328] |
| aeropress.png | AeroPress | 2601500.0 | 0.09 | 1293780.0 | 0.09 | [6332, 5199, 6367, 7024, 7906, 8704, 8693, 7797, 6828, 6963, 6877, 9270] |
| pour-over.png | Pour over | 846000.0 | 0.03 | 364530.0 | 0.02 | [1562, 1291, 1511, 1687, 1940, 2177, 2141, 1856, 1715, 1806, 1601, 2165] |
| french-press.png | French press | 1113250.0 | 0.04 | 748120.0 | 0.05 | [3507, 2880, 3346, 3792, 3905, 4095, 4184, 4428, 3279, 3420, 3297, 4819] |
| cezve.png | Cezve | 2512500.0 | 0.09 | 1969520.0 | 0.13 | [12171, 11469, 11788, 13630, 15391, 16532, 17090, 14433, 12985, 12935, 11598, 15895] |
| chemex.png | Chemex | 3137250.0 | 0.11 | 817680.0 | 0.06 | [4938, 4167, 5235, 6000, 6358, 6768, 7112, 6249, 5605, 6076, 4980, 7220] |
| scale.png | Scale | 3801000.0 | 0.13 | 2910290.0 | 0.2 | [1542, 1566, 1681, 2028, 2425, 2549, 2569, 2232, 2036, 2089, 1693, 3180] |
| kettle.png | Kettle | 756250.0 | 0.03 | 617520.0 | 0.04 | [1139, 1023, 1087, 1131, 1414, 1478, 1456, 1304, 1140, 1233, 1193, 1529] |
| espresso-machine.png | Espresso Machine | 8406000.0 | 0.29 | 3636440.0 | 0.25 | [686, 840, 618, 598, 2148, 533, 797, 996, 1002, 668, 858, 2577] |
| None | Total | 29448500.0 | 1.0 | 14793150.0 | 1.0 | None |

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| --- |
| Formatting Basics 1 |
| Format the currency values to make them look better. |

gt\_tbl\_5 = (  
 gt\_tbl\_4  
 .fmt\_currency(columns=cs.ends\_with("dollars"),  
 use\_subunits=False  
 )  
)  
  
gt\_tbl\_5

| Coffee Equipment Sales for 2023 | | | | | | |
| --- | --- | --- | --- | --- | --- | --- |
| icon | product | Revenue | | Profit | | Monthly Sales |
| Amount | Percent | Amount | Percent |
| grinder.png | Grinder | $904,500 | 0.03 | $567,960 | 0.04 | [521, 494, 596, 613, 667, 748, 765, 686, 607, 594, 568, 751] |
| moka-pot.png | Moka pot | $2,045,250 | 0.07 | $181,080 | 0.01 | [4726, 4741, 4791, 5506, 6156, 6619, 6868, 6026, 5304, 4884, 4648, 6283] |
| cold-brew.png | Cold brew | $288,750 | 0.01 | $241,770 | 0.02 | [244, 249, 438, 981, 1774, 2699, 2606, 2348, 1741, 896, 499, 244] |
| filter.png | Filter | $404,250 | 0.01 | $70,010 | 0.0 | [2067, 1809, 1836, 2123, 2252, 2631, 2562, 2367, 2164, 2195, 2070, 2744] |
| drip-machine.png | Drip machine | $2,632,000 | 0.09 | $1,374,450 | 0.09 | [2137, 1623, 1971, 2097, 2580, 2456, 2336, 2316, 2052, 1967, 1837, 2328] |
| aeropress.png | AeroPress | $2,601,500 | 0.09 | $1,293,780 | 0.09 | [6332, 5199, 6367, 7024, 7906, 8704, 8693, 7797, 6828, 6963, 6877, 9270] |
| pour-over.png | Pour over | $846,000 | 0.03 | $364,530 | 0.02 | [1562, 1291, 1511, 1687, 1940, 2177, 2141, 1856, 1715, 1806, 1601, 2165] |
| french-press.png | French press | $1,113,250 | 0.04 | $748,120 | 0.05 | [3507, 2880, 3346, 3792, 3905, 4095, 4184, 4428, 3279, 3420, 3297, 4819] |
| cezve.png | Cezve | $2,512,500 | 0.09 | $1,969,520 | 0.13 | [12171, 11469, 11788, 13630, 15391, 16532, 17090, 14433, 12985, 12935, 11598, 15895] |
| chemex.png | Chemex | $3,137,250 | 0.11 | $817,680 | 0.06 | [4938, 4167, 5235, 6000, 6358, 6768, 7112, 6249, 5605, 6076, 4980, 7220] |
| scale.png | Scale | $3,801,000 | 0.13 | $2,910,290 | 0.2 | [1542, 1566, 1681, 2028, 2425, 2549, 2569, 2232, 2036, 2089, 1693, 3180] |
| kettle.png | Kettle | $756,250 | 0.03 | $617,520 | 0.04 | [1139, 1023, 1087, 1131, 1414, 1478, 1456, 1304, 1140, 1233, 1193, 1529] |
| espresso-machine.png | Espresso Machine | $8,406,000 | 0.29 | $3,636,440 | 0.25 | [686, 840, 618, 598, 2148, 533, 797, 996, 1002, 668, 858, 2577] |
| None | Total | $29,448,500 | 1.0 | $14,793,150 | 1.0 | None |

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| --- |
| Formatting Basics 2 |
| Format the fractional values by turning them into percentages. |

gt\_tbl\_6 = (  
 gt\_tbl\_5  
 .fmt\_percent(  
 columns =cs.ends\_with("pct"),  
 decimals=0  
 )  
)  
  
gt\_tbl\_6

| Coffee Equipment Sales for 2023 | | | | | | |
| --- | --- | --- | --- | --- | --- | --- |
| icon | product | Revenue | | Profit | | Monthly Sales |
| Amount | Percent | Amount | Percent |
| grinder.png | Grinder | $904,500 | 3% | $567,960 | 4% | [521, 494, 596, 613, 667, 748, 765, 686, 607, 594, 568, 751] |
| moka-pot.png | Moka pot | $2,045,250 | 7% | $181,080 | 1% | [4726, 4741, 4791, 5506, 6156, 6619, 6868, 6026, 5304, 4884, 4648, 6283] |
| cold-brew.png | Cold brew | $288,750 | 1% | $241,770 | 2% | [244, 249, 438, 981, 1774, 2699, 2606, 2348, 1741, 896, 499, 244] |
| filter.png | Filter | $404,250 | 1% | $70,010 | 0% | [2067, 1809, 1836, 2123, 2252, 2631, 2562, 2367, 2164, 2195, 2070, 2744] |
| drip-machine.png | Drip machine | $2,632,000 | 9% | $1,374,450 | 9% | [2137, 1623, 1971, 2097, 2580, 2456, 2336, 2316, 2052, 1967, 1837, 2328] |
| aeropress.png | AeroPress | $2,601,500 | 9% | $1,293,780 | 9% | [6332, 5199, 6367, 7024, 7906, 8704, 8693, 7797, 6828, 6963, 6877, 9270] |
| pour-over.png | Pour over | $846,000 | 3% | $364,530 | 2% | [1562, 1291, 1511, 1687, 1940, 2177, 2141, 1856, 1715, 1806, 1601, 2165] |
| french-press.png | French press | $1,113,250 | 4% | $748,120 | 5% | [3507, 2880, 3346, 3792, 3905, 4095, 4184, 4428, 3279, 3420, 3297, 4819] |
| cezve.png | Cezve | $2,512,500 | 9% | $1,969,520 | 13% | [12171, 11469, 11788, 13630, 15391, 16532, 17090, 14433, 12985, 12935, 11598, 15895] |
| chemex.png | Chemex | $3,137,250 | 11% | $817,680 | 6% | [4938, 4167, 5235, 6000, 6358, 6768, 7112, 6249, 5605, 6076, 4980, 7220] |
| scale.png | Scale | $3,801,000 | 13% | $2,910,290 | 20% | [1542, 1566, 1681, 2028, 2425, 2549, 2569, 2232, 2036, 2089, 1693, 3180] |
| kettle.png | Kettle | $756,250 | 3% | $617,520 | 4% | [1139, 1023, 1087, 1131, 1414, 1478, 1456, 1304, 1140, 1233, 1193, 1529] |
| espresso-machine.png | Espresso Machine | $8,406,000 | 29% | $3,636,440 | 25% | [686, 840, 618, 598, 2148, 533, 797, 996, 1002, 668, 858, 2577] |
| None | Total | $29,448,500 | 100% | $14,793,150 | 100% | None |

|  |
| --- |
| Styling with tab\_style() 1 |
| Add an ‘aliceblue’ background to columns pertaining to revenue. |

gt\_tbl\_7 = (  
 gt\_tbl\_6  
 .tab\_style(  
 style= style.fill(color="aliceblue"),  
 locations=loc.body(columns=cs.starts\_with("revenue"))  
 )  
)  
  
gt\_tbl\_7

| Coffee Equipment Sales for 2023 | | | | | | |
| --- | --- | --- | --- | --- | --- | --- |
| icon | product | Revenue | | Profit | | Monthly Sales |
| Amount | Percent | Amount | Percent |
| grinder.png | Grinder | $904,500 | 3% | $567,960 | 4% | [521, 494, 596, 613, 667, 748, 765, 686, 607, 594, 568, 751] |
| moka-pot.png | Moka pot | $2,045,250 | 7% | $181,080 | 1% | [4726, 4741, 4791, 5506, 6156, 6619, 6868, 6026, 5304, 4884, 4648, 6283] |
| cold-brew.png | Cold brew | $288,750 | 1% | $241,770 | 2% | [244, 249, 438, 981, 1774, 2699, 2606, 2348, 1741, 896, 499, 244] |
| filter.png | Filter | $404,250 | 1% | $70,010 | 0% | [2067, 1809, 1836, 2123, 2252, 2631, 2562, 2367, 2164, 2195, 2070, 2744] |
| drip-machine.png | Drip machine | $2,632,000 | 9% | $1,374,450 | 9% | [2137, 1623, 1971, 2097, 2580, 2456, 2336, 2316, 2052, 1967, 1837, 2328] |
| aeropress.png | AeroPress | $2,601,500 | 9% | $1,293,780 | 9% | [6332, 5199, 6367, 7024, 7906, 8704, 8693, 7797, 6828, 6963, 6877, 9270] |
| pour-over.png | Pour over | $846,000 | 3% | $364,530 | 2% | [1562, 1291, 1511, 1687, 1940, 2177, 2141, 1856, 1715, 1806, 1601, 2165] |
| french-press.png | French press | $1,113,250 | 4% | $748,120 | 5% | [3507, 2880, 3346, 3792, 3905, 4095, 4184, 4428, 3279, 3420, 3297, 4819] |
| cezve.png | Cezve | $2,512,500 | 9% | $1,969,520 | 13% | [12171, 11469, 11788, 13630, 15391, 16532, 17090, 14433, 12985, 12935, 11598, 15895] |
| chemex.png | Chemex | $3,137,250 | 11% | $817,680 | 6% | [4938, 4167, 5235, 6000, 6358, 6768, 7112, 6249, 5605, 6076, 4980, 7220] |
| scale.png | Scale | $3,801,000 | 13% | $2,910,290 | 20% | [1542, 1566, 1681, 2028, 2425, 2549, 2569, 2232, 2036, 2089, 1693, 3180] |
| kettle.png | Kettle | $756,250 | 3% | $617,520 | 4% | [1139, 1023, 1087, 1131, 1414, 1478, 1456, 1304, 1140, 1233, 1193, 1529] |
| espresso-machine.png | Espresso Machine | $8,406,000 | 29% | $3,636,440 | 25% | [686, 840, 618, 598, 2148, 533, 797, 996, 1002, 668, 858, 2577] |
| None | Total | $29,448,500 | 100% | $14,793,150 | 100% | None |

|  |
| --- |
| Styling with tab\_style() 2 |
| Add an ‘papayawhip’ background to columns pertaining to profit. |

gt\_tbl\_8 = (  
 gt\_tbl\_7  
 .tab\_style(  
 style= style.fill(color="papayawhip"),  
 locations=loc.body(columns=cs.starts\_with("profit"))  
 )  
)  
  
gt\_tbl\_8

| Coffee Equipment Sales for 2023 | | | | | | |
| --- | --- | --- | --- | --- | --- | --- |
| icon | product | Revenue | | Profit | | Monthly Sales |
| Amount | Percent | Amount | Percent |
| grinder.png | Grinder | $904,500 | 3% | $567,960 | 4% | [521, 494, 596, 613, 667, 748, 765, 686, 607, 594, 568, 751] |
| moka-pot.png | Moka pot | $2,045,250 | 7% | $181,080 | 1% | [4726, 4741, 4791, 5506, 6156, 6619, 6868, 6026, 5304, 4884, 4648, 6283] |
| cold-brew.png | Cold brew | $288,750 | 1% | $241,770 | 2% | [244, 249, 438, 981, 1774, 2699, 2606, 2348, 1741, 896, 499, 244] |
| filter.png | Filter | $404,250 | 1% | $70,010 | 0% | [2067, 1809, 1836, 2123, 2252, 2631, 2562, 2367, 2164, 2195, 2070, 2744] |
| drip-machine.png | Drip machine | $2,632,000 | 9% | $1,374,450 | 9% | [2137, 1623, 1971, 2097, 2580, 2456, 2336, 2316, 2052, 1967, 1837, 2328] |
| aeropress.png | AeroPress | $2,601,500 | 9% | $1,293,780 | 9% | [6332, 5199, 6367, 7024, 7906, 8704, 8693, 7797, 6828, 6963, 6877, 9270] |
| pour-over.png | Pour over | $846,000 | 3% | $364,530 | 2% | [1562, 1291, 1511, 1687, 1940, 2177, 2141, 1856, 1715, 1806, 1601, 2165] |
| french-press.png | French press | $1,113,250 | 4% | $748,120 | 5% | [3507, 2880, 3346, 3792, 3905, 4095, 4184, 4428, 3279, 3420, 3297, 4819] |
| cezve.png | Cezve | $2,512,500 | 9% | $1,969,520 | 13% | [12171, 11469, 11788, 13630, 15391, 16532, 17090, 14433, 12985, 12935, 11598, 15895] |
| chemex.png | Chemex | $3,137,250 | 11% | $817,680 | 6% | [4938, 4167, 5235, 6000, 6358, 6768, 7112, 6249, 5605, 6076, 4980, 7220] |
| scale.png | Scale | $3,801,000 | 13% | $2,910,290 | 20% | [1542, 1566, 1681, 2028, 2425, 2549, 2569, 2232, 2036, 2089, 1693, 3180] |
| kettle.png | Kettle | $756,250 | 3% | $617,520 | 4% | [1139, 1023, 1087, 1131, 1414, 1478, 1456, 1304, 1140, 1233, 1193, 1529] |
| espresso-machine.png | Espresso Machine | $8,406,000 | 29% | $3,636,440 | 25% | [686, 840, 618, 598, 2148, 533, 797, 996, 1002, 668, 858, 2577] |
| None | Total | $29,448,500 | 100% | $14,793,150 | 100% | None |

|  |
| --- |
| Styling with tab\_style() 3 |
| Make the text bold in the bottom row (the totals column). |

gt\_tbl\_9 = (  
 gt\_tbl\_8  
 .tab\_style(  
 style=style.text(weight="bold"),  
 locations=loc.body(rows= pl.col("product") == "Total"  
 )  
)  
)  
  
gt\_tbl\_9

| Coffee Equipment Sales for 2023 | | | | | | |
| --- | --- | --- | --- | --- | --- | --- |
| icon | product | Revenue | | Profit | | Monthly Sales |
| Amount | Percent | Amount | Percent |
| grinder.png | Grinder | $904,500 | 3% | $567,960 | 4% | [521, 494, 596, 613, 667, 748, 765, 686, 607, 594, 568, 751] |
| moka-pot.png | Moka pot | $2,045,250 | 7% | $181,080 | 1% | [4726, 4741, 4791, 5506, 6156, 6619, 6868, 6026, 5304, 4884, 4648, 6283] |
| cold-brew.png | Cold brew | $288,750 | 1% | $241,770 | 2% | [244, 249, 438, 981, 1774, 2699, 2606, 2348, 1741, 896, 499, 244] |
| filter.png | Filter | $404,250 | 1% | $70,010 | 0% | [2067, 1809, 1836, 2123, 2252, 2631, 2562, 2367, 2164, 2195, 2070, 2744] |
| drip-machine.png | Drip machine | $2,632,000 | 9% | $1,374,450 | 9% | [2137, 1623, 1971, 2097, 2580, 2456, 2336, 2316, 2052, 1967, 1837, 2328] |
| aeropress.png | AeroPress | $2,601,500 | 9% | $1,293,780 | 9% | [6332, 5199, 6367, 7024, 7906, 8704, 8693, 7797, 6828, 6963, 6877, 9270] |
| pour-over.png | Pour over | $846,000 | 3% | $364,530 | 2% | [1562, 1291, 1511, 1687, 1940, 2177, 2141, 1856, 1715, 1806, 1601, 2165] |
| french-press.png | French press | $1,113,250 | 4% | $748,120 | 5% | [3507, 2880, 3346, 3792, 3905, 4095, 4184, 4428, 3279, 3420, 3297, 4819] |
| cezve.png | Cezve | $2,512,500 | 9% | $1,969,520 | 13% | [12171, 11469, 11788, 13630, 15391, 16532, 17090, 14433, 12985, 12935, 11598, 15895] |
| chemex.png | Chemex | $3,137,250 | 11% | $817,680 | 6% | [4938, 4167, 5235, 6000, 6358, 6768, 7112, 6249, 5605, 6076, 4980, 7220] |
| scale.png | Scale | $3,801,000 | 13% | $2,910,290 | 20% | [1542, 1566, 1681, 2028, 2425, 2549, 2569, 2232, 2036, 2089, 1693, 3180] |
| kettle.png | Kettle | $756,250 | 3% | $617,520 | 4% | [1139, 1023, 1087, 1131, 1414, 1478, 1456, 1304, 1140, 1233, 1193, 1529] |
| espresso-machine.png | Espresso Machine | $8,406,000 | 29% | $3,636,440 | 25% | [686, 840, 618, 598, 2148, 533, 797, 996, 1002, 668, 858, 2577] |
| None | Total | $29,448,500 | 100% | $14,793,150 | 100% | None |

|  |
| --- |
| Three Last Things 1 |
| Add a column of bar plots using the monthly revenue column. |

gt\_tbl\_10 = (  
 gt\_tbl\_9  
 .fmt\_nanoplot(  
 columns="monthly\_sales",  
 plot\_type="bar"  
 )  
)  
  
gt\_tbl\_10

| Coffee Equipment Sales for 2023 | | | | | | |
| --- | --- | --- | --- | --- | --- | --- |
| icon | product | Revenue | | Profit | | Monthly Sales |
| Amount | Percent | Amount | Percent |
| grinder.png | Grinder | $904,500 | 3% | $567,960 | 4% | 7650521494596613667748765686607594568751 |
| moka-pot.png | Moka pot | $2,045,250 | 7% | $181,080 | 1% | 6.87K04.73K4.74K4.79K5.51K6.16K6.62K6.87K6.03K5.30K4.88K4.65K6.28K |
| cold-brew.png | Cold brew | $288,750 | 1% | $241,770 | 2% | 2.70K02442494389811.77K2.70K2.61K2.35K1.74K896499244 |
| filter.png | Filter | $404,250 | 1% | $70,010 | 0% | 2.74K02.07K1.81K1.84K2.12K2.25K2.63K2.56K2.37K2.16K2.19K2.07K2.74K |
| drip-machine.png | Drip machine | $2,632,000 | 9% | $1,374,450 | 9% | 2.58K02.14K1.62K1.97K2.10K2.58K2.46K2.34K2.32K2.05K1.97K1.84K2.33K |
| aeropress.png | AeroPress | $2,601,500 | 9% | $1,293,780 | 9% | 9.27K06.33K5.20K6.37K7.02K7.91K8.70K8.69K7.80K6.83K6.96K6.88K9.27K |
| pour-over.png | Pour over | $846,000 | 3% | $364,530 | 2% | 2.18K01.56K1.29K1.51K1.69K1.94K2.18K2.14K1.86K1.72K1.81K1.60K2.16K |
| french-press.png | French press | $1,113,250 | 4% | $748,120 | 5% | 4.82K03.51K2.88K3.35K3.79K3.90K4.10K4.18K4.43K3.28K3.42K3.30K4.82K |
| cezve.png | Cezve | $2,512,500 | 9% | $1,969,520 | 13% | 17.1K012.2K11.5K11.8K13.6K15.4K16.5K17.1K14.4K13.0K12.9K11.6K15.9K |
| chemex.png | Chemex | $3,137,250 | 11% | $817,680 | 6% | 7.22K04.94K4.17K5.24K6.00K6.36K6.77K7.11K6.25K5.60K6.08K4.98K7.22K |
| scale.png | Scale | $3,801,000 | 13% | $2,910,290 | 20% | 3.18K01.54K1.57K1.68K2.03K2.42K2.55K2.57K2.23K2.04K2.09K1.69K3.18K |
| kettle.png | Kettle | $756,250 | 3% | $617,520 | 4% | 1.53K01.14K1.02K1.09K1.13K1.41K1.48K1.46K1.30K1.14K1.23K1.19K1.53K |
| espresso-machine.png | Espresso Machine | $8,406,000 | 29% | $3,636,440 | 25% | 2.58K06868406185982.15K5337979961.00K6688582.58K |
| None | Total | $29,448,500 | 100% | $14,793,150 | 100% | None |

|  |
| --- |
| Three Last Things 2 |
| Add images to the icon column. The images are in the img directory. |

gt\_tbl\_11 = (  
 gt\_tbl\_10.fmt\_image(  
 columns="icon",  
 path=r"C:\Users\Hon.Olayinka\Desktop\Data Science\Posit PBC\img"   
)  
)  
  
gt\_tbl\_11

FileNotFoundError: [Errno 2] No such file or directory: 'C:\\Users\\Hon.Olayinka\\Desktop\\Data Science\\Posit PBC\\img\\grinder.png'  
[1;31m---------------------------------------------------------------------------[0m  
[1;31mFileNotFoundError[0m Traceback (most recent call last)  
File [1;32m~\miniconda3\envs\pydata-book\Lib\site-packages\IPython\core\formatters.py:344[0m, in [0;36mBaseFormatter.\_\_call\_\_[1;34m(self, obj)[0m  
[0;32m 342[0m method [38;5;241m=[39m get\_real\_method(obj, [38;5;28mself[39m[38;5;241m.[39mprint\_method)  
[0;32m 343[0m [38;5;28;01mif[39;00m method [38;5;129;01mis[39;00m [38;5;129;01mnot[39;00m [38;5;28;01mNone[39;00m:  
[1;32m--> 344[0m [38;5;28;01mreturn[39;00m [43mmethod[49m[43m([49m[43m)[49m  
[0;32m 345[0m [38;5;28;01mreturn[39;00m [38;5;28;01mNone[39;00m  
[0;32m 346[0m [38;5;28;01melse[39;00m:  
  
File [1;32m~\miniconda3\envs\pydata-book\Lib\site-packages\great\_tables\gt.py:296[0m, in [0;36mGT.\_repr\_html\_[1;34m(self)[0m  
[0;32m 293[0m make\_page [38;5;241m=[39m defaults[[38;5;124m"[39m[38;5;124mmake\_page[39m[38;5;124m"[39m]  
[0;32m 294[0m all\_important [38;5;241m=[39m defaults[[38;5;124m"[39m[38;5;124mall\_important[39m[38;5;124m"[39m]  
[1;32m--> 296[0m rendered [38;5;241m=[39m [38;5;28;43mself[39;49m[38;5;241;43m.[39;49m[43mas\_raw\_html[49m[43m([49m  
[0;32m 297[0m [43m [49m[43mmake\_page[49m[38;5;241;43m=[39;49m[43mmake\_page[49m[43m,[49m  
[0;32m 298[0m [43m [49m[43mall\_important[49m[38;5;241;43m=[39;49m[43mall\_important[49m[43m,[49m  
[0;32m 299[0m [43m[49m[43m)[49m  
[0;32m 301[0m [38;5;28;01mreturn[39;00m rendered  
  
File [1;32m~\miniconda3\envs\pydata-book\Lib\site-packages\great\_tables\\_export.py:220[0m, in [0;36mas\_raw\_html[1;34m(self, inline\_css, make\_page, all\_important)[0m  
[0;32m 129[0m [38;5;28;01mdef[39;00m [38;5;21mas\_raw\_html[39m(  
[0;32m 130[0m [38;5;28mself[39m: GT,  
[0;32m 131[0m inline\_css: [38;5;28mbool[39m [38;5;241m=[39m [38;5;28;01mFalse[39;00m,  
[0;32m 132[0m make\_page: [38;5;28mbool[39m [38;5;241m=[39m [38;5;28;01mFalse[39;00m,  
[0;32m 133[0m all\_important: [38;5;28mbool[39m [38;5;241m=[39m [38;5;28;01mFalse[39;00m,  
[0;32m 134[0m ) [38;5;241m-[39m[38;5;241m>[39m [38;5;28mstr[39m:  
[0;32m 135[0m [38;5;250m [39m[38;5;124;03m"""[39;00m  
[0;32m 136[0m [38;5;124;03m Get the HTML content of a GT object.[39;00m  
[0;32m 137[0m   
[1;32m (...)[0m  
[0;32m 217[0m [38;5;124;03m ```[39;00m  
[0;32m 218[0m [38;5;124;03m """[39;00m  
[1;32m--> 220[0m built\_table [38;5;241m=[39m [38;5;28;43mself[39;49m[38;5;241;43m.[39;49m[43m\_build\_data[49m[43m([49m[43mcontext[49m[38;5;241;43m=[39;49m[38;5;124;43m"[39;49m[38;5;124;43mhtml[39;49m[38;5;124;43m"[39;49m[43m)[49m  
[0;32m 222[0m table\_html [38;5;241m=[39m built\_table[38;5;241m.[39m\_render\_as\_html(  
[0;32m 223[0m make\_page[38;5;241m=[39mmake\_page,  
[0;32m 224[0m all\_important[38;5;241m=[39mall\_important,  
[0;32m 225[0m )  
[0;32m 227[0m [38;5;28;01mif[39;00m inline\_css:  
  
File [1;32m~\miniconda3\envs\pydata-book\Lib\site-packages\great\_tables\gt.py:314[0m, in [0;36mGT.\_build\_data[1;34m(self, context)[0m  
[0;32m 311[0m [38;5;28;01mdef[39;00m [38;5;21m\_build\_data[39m([38;5;28mself[39m, context: [38;5;28mstr[39m) [38;5;241m-[39m[38;5;241m>[39m Self:  
[0;32m 312[0m [38;5;66;03m# Build the body of the table by generating a dictionary[39;00m  
[0;32m 313[0m [38;5;66;03m# of lists with cells initially set to nan values[39;00m  
[1;32m--> 314[0m built [38;5;241m=[39m [38;5;28;43mself[39;49m[38;5;241;43m.[39;49m[43m\_render\_formats[49m[43m([49m[43mcontext[49m[43m)[49m  
[0;32m 316[0m [38;5;28;01mif[39;00m context [38;5;241m==[39m [38;5;124m"[39m[38;5;124mlatex[39m[38;5;124m"[39m:  
[0;32m 317[0m built [38;5;241m=[39m \_migrate\_unformatted\_to\_output(  
[0;32m 318[0m data[38;5;241m=[39mbuilt, data\_tbl[38;5;241m=[39m[38;5;28mself[39m[38;5;241m.[39m\_tbl\_data, formats[38;5;241m=[39m[38;5;28mself[39m[38;5;241m.[39m\_formats, context[38;5;241m=[39mcontext  
[0;32m 319[0m )  
  
File [1;32m~\miniconda3\envs\pydata-book\Lib\site-packages\great\_tables\gt.py:307[0m, in [0;36mGT.\_render\_formats[1;34m(self, context)[0m  
[0;32m 304[0m new\_body [38;5;241m=[39m [38;5;28mself[39m[38;5;241m.[39m\_body[38;5;241m.[39mcopy()  
[0;32m 306[0m [38;5;66;03m# TODO: this body method performs a mutation. Should we make a copy of body?[39;00m  
[1;32m--> 307[0m [43mnew\_body[49m[38;5;241;43m.[39;49m[43mrender\_formats[49m[43m([49m[38;5;28;43mself[39;49m[38;5;241;43m.[39;49m[43m\_tbl\_data[49m[43m,[49m[43m [49m[38;5;28;43mself[39;49m[38;5;241;43m.[39;49m[43m\_formats[49m[43m,[49m[43m [49m[43mcontext[49m[43m)[49m  
[0;32m 308[0m new\_body[38;5;241m.[39mrender\_formats([38;5;28mself[39m[38;5;241m.[39m\_tbl\_data, [38;5;28mself[39m[38;5;241m.[39m\_substitutions, context)  
[0;32m 309[0m [38;5;28;01mreturn[39;00m [38;5;28mself[39m[38;5;241m.[39m\_replace(\_body[38;5;241m=[39mnew\_body)  
  
File [1;32m~\miniconda3\envs\pydata-book\Lib\site-packages\great\_tables\\_gt\_data.py:172[0m, in [0;36mBody.render\_formats[1;34m(self, data\_tbl, formats, context)[0m  
[0;32m 170[0m [38;5;28;01mraise[39;00m [38;5;167;01mException[39;00m([38;5;124m"[39m[38;5;124mInternal Error[39m[38;5;124m"[39m)  
[0;32m 171[0m [38;5;28;01mfor[39;00m col, row [38;5;129;01min[39;00m fmt[38;5;241m.[39mcells[38;5;241m.[39mresolve():  
[1;32m--> 172[0m result [38;5;241m=[39m [43meval\_func[49m[43m([49m[43m\_get\_cell[49m[43m([49m[43mdata\_tbl[49m[43m,[49m[43m [49m[43mrow[49m[43m,[49m[43m [49m[43mcol[49m[43m)[49m[43m)[49m  
[0;32m 173[0m [38;5;28;01mif[39;00m [38;5;28misinstance[39m(result, FormatterSkipElement):  
[0;32m 174[0m [38;5;28;01mcontinue[39;00m  
  
File [1;32m~\miniconda3\envs\pydata-book\Lib\site-packages\great\_tables\\_formats.py:3816[0m, in [0;36mFmtImage.to\_html[1;34m(self, val)[0m  
[0;32m 3813[0m filename [38;5;241m=[39m [38;5;28mstr[39m((Path([38;5;28mself[39m[38;5;241m.[39mpath [38;5;129;01mor[39;00m [38;5;124m"[39m[38;5;124m"[39m) [38;5;241m/[39m file)[38;5;241m.[39mexpanduser()[38;5;241m.[39mabsolute())  
[0;32m 3815[0m [38;5;28;01mif[39;00m [38;5;28mself[39m[38;5;241m.[39mencode:  
[1;32m-> 3816[0m uri [38;5;241m=[39m [38;5;28;43mself[39;49m[38;5;241;43m.[39;49m[43m\_get\_image\_uri[49m[43m([49m[43mfilename[49m[43m)[49m  
[0;32m 3817[0m [38;5;28;01melse[39;00m:  
[0;32m 3818[0m uri [38;5;241m=[39m filename  
  
File [1;32m~\miniconda3\envs\pydata-book\Lib\site-packages\great\_tables\\_formats.py:3845[0m, in [0;36mFmtImage.\_get\_image\_uri[1;34m(cls, filename)[0m  
[0;32m 3841[0m [38;5;129m@classmethod[39m  
[0;32m 3842[0m [38;5;28;01mdef[39;00m [38;5;21m\_get\_image\_uri[39m([38;5;28mcls[39m, filename: [38;5;28mstr[39m) [38;5;241m-[39m[38;5;241m>[39m [38;5;28mstr[39m:  
[0;32m 3843[0m [38;5;28;01mimport[39;00m [38;5;21;01mbase64[39;00m  
[1;32m-> 3845[0m [38;5;28;01mwith[39;00m [38;5;28;43mopen[39;49m[43m([49m[43mfilename[49m[43m,[49m[43m [49m[38;5;124;43m"[39;49m[38;5;124;43mrb[39;49m[38;5;124;43m"[39;49m[43m)[49m [38;5;28;01mas[39;00m f:  
[0;32m 3846[0m encoded [38;5;241m=[39m base64[38;5;241m.[39mb64encode(f[38;5;241m.[39mread())[38;5;241m.[39mdecode()  
[0;32m 3848[0m mime\_type [38;5;241m=[39m [38;5;28mcls[39m[38;5;241m.[39m\_get\_mime\_type(filename)  
  
[1;31mFileNotFoundError[0m: [Errno 2] No such file or directory: 'C:\\Users\\Hon.Olayinka\\Desktop\\Data Science\\Posit PBC\\img\\grinder.png'

GT(\_tbl\_data=shape: (14, 7)  
┌──────────────┬──────────────┬─────────────┬─────────────┬─────────────┬────────────┬─────────────┐  
│ icon ┆ product ┆ revenue\_dol ┆ revenue\_pct ┆ profit\_doll ┆ profit\_pct ┆ monthly\_sal │  
│ --- ┆ --- ┆ lars ┆ --- ┆ ars ┆ --- ┆ es │  
│ str ┆ str ┆ --- ┆ f64 ┆ --- ┆ f64 ┆ --- │  
│ ┆ ┆ f64 ┆ ┆ f64 ┆ ┆ list[i64] │  
╞══════════════╪══════════════╪═════════════╪═════════════╪═════════════╪════════════╪═════════════╡  
│ grinder.png ┆ Grinder ┆ 904500.0 ┆ 0.03 ┆ 567960.0 ┆ 0.04 ┆ [521, 494, │  
│ ┆ ┆ ┆ ┆ ┆ ┆ … 751] │  
│ moka-pot.png ┆ Moka pot ┆ 2.04525e6 ┆ 0.07 ┆ 181080.0 ┆ 0.01 ┆ [4726, │  
│ ┆ ┆ ┆ ┆ ┆ ┆ 4741, … │  
│ ┆ ┆ ┆ ┆ ┆ ┆ 6283] │  
│ cold-brew.pn ┆ Cold brew ┆ 288750.0 ┆ 0.01 ┆ 241770.0 ┆ 0.02 ┆ [244, 249, │  
│ g ┆ ┆ ┆ ┆ ┆ ┆ … 244] │  
│ filter.png ┆ Filter ┆ 404250.0 ┆ 0.01 ┆ 70010.0 ┆ 0.0 ┆ [2067, │  
│ ┆ ┆ ┆ ┆ ┆ ┆ 1809, … │  
│ ┆ ┆ ┆ ┆ ┆ ┆ 2744] │  
│ drip-machine ┆ Drip machine ┆ 2.632e6 ┆ 0.09 ┆ 1.37445e6 ┆ 0.09 ┆ [2137, │  
│ .png ┆ ┆ ┆ ┆ ┆ ┆ 1623, … │  
│ ┆ ┆ ┆ ┆ ┆ ┆ 2328] │  
│ … ┆ … ┆ … ┆ … ┆ … ┆ … ┆ … │  
│ chemex.png ┆ Chemex ┆ 3.13725e6 ┆ 0.11 ┆ 817680.0 ┆ 0.06 ┆ [4938, │  
│ ┆ ┆ ┆ ┆ ┆ ┆ 4167, … │  
│ ┆ ┆ ┆ ┆ ┆ ┆ 7220] │  
│ scale.png ┆ Scale ┆ 3.801e6 ┆ 0.13 ┆ 2.91029e6 ┆ 0.2 ┆ [1542, │  
│ ┆ ┆ ┆ ┆ ┆ ┆ 1566, … │  
│ ┆ ┆ ┆ ┆ ┆ ┆ 3180] │  
│ kettle.png ┆ Kettle ┆ 756250.0 ┆ 0.03 ┆ 617520.0 ┆ 0.04 ┆ [1139, │  
│ ┆ ┆ ┆ ┆ ┆ ┆ 1023, … │  
│ ┆ ┆ ┆ ┆ ┆ ┆ 1529] │  
│ espresso-mac ┆ Espresso ┆ 8.406e6 ┆ 0.29 ┆ 3.63644e6 ┆ 0.25 ┆ [686, 840, │  
│ hine.png ┆ Machine ┆ ┆ ┆ ┆ ┆ … 2577] │  
│ null ┆ Total ┆ 2.94485e7 ┆ 1.0 ┆ 1.479315e7 ┆ 1.0 ┆ null │  
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column\_labels\_border\_top\_width=OptionsInfo(scss=True, category='column\_labels', type='px', value='2px'), column\_labels\_border\_top\_color=OptionsInfo(scss=True, category='column\_labels', type='value', value='#D3D3D3'), column\_labels\_border\_bottom\_style=OptionsInfo(scss=True, category='column\_labels', type='value', value='solid'), column\_labels\_border\_bottom\_width=OptionsInfo(scss=True, category='column\_labels', type='px', value='2px'), column\_labels\_border\_bottom\_color=OptionsInfo(scss=True, category='column\_labels', type='value', value='#D3D3D3'), column\_labels\_border\_lr\_style=OptionsInfo(scss=True, category='column\_labels', type='value', value='none'), column\_labels\_border\_lr\_width=OptionsInfo(scss=True, category='column\_labels', type='px', value='1px'), column\_labels\_border\_lr\_color=OptionsInfo(scss=True, category='column\_labels', type='value', value='#D3D3D3'), column\_labels\_hidden=OptionsInfo(scss=False, category='column\_labels', 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row\_group\_border\_right\_style=OptionsInfo(scss=True, category='row\_group', type='value', value='none'), row\_group\_border\_right\_width=OptionsInfo(scss=True, category='row\_group', type='px', value='1px'), row\_group\_border\_right\_color=OptionsInfo(scss=True, category='row\_group', type='value', value='#D3D3D3'), row\_group\_border\_bottom\_style=OptionsInfo(scss=True, category='row\_group', type='value', value='solid'), row\_group\_border\_bottom\_width=OptionsInfo(scss=True, category='row\_group', type='px', value='2px'), row\_group\_border\_bottom\_color=OptionsInfo(scss=True, category='row\_group', type='value', value='#D3D3D3'), row\_group\_border\_left\_style=OptionsInfo(scss=True, category='row\_group', type='value', value='none'), row\_group\_border\_left\_width=OptionsInfo(scss=True, category='row\_group', type='px', value='1px'), row\_group\_border\_left\_color=OptionsInfo(scss=True, category='row\_group', type='value', value='#D3D3D3'), row\_group\_as\_column=OptionsInfo(scss=False, category='row\_group', type='boolean', value=False), table\_body\_hlines\_style=OptionsInfo(scss=True, category='table\_body', type='value', value='solid'), table\_body\_hlines\_width=OptionsInfo(scss=True, category='table\_body', type='px', value='1px'), table\_body\_hlines\_color=OptionsInfo(scss=True, category='table\_body', type='value', value='#D3D3D3'), table\_body\_vlines\_style=OptionsInfo(scss=True, category='table\_body', type='value', value='none'), table\_body\_vlines\_width=OptionsInfo(scss=True, category='table\_body', type='px', value='1px'), table\_body\_vlines\_color=OptionsInfo(scss=True, category='table\_body', type='value', value='#D3D3D3'), table\_body\_border\_top\_style=OptionsInfo(scss=True, category='table\_body', type='value', value='solid'), table\_body\_border\_top\_width=OptionsInfo(scss=True, category='table\_body', type='px', value='2px'), table\_body\_border\_top\_color=OptionsInfo(scss=True, category='table\_body', type='value', value='#D3D3D3'), table\_body\_border\_bottom\_style=OptionsInfo(scss=True, category='table\_body', type='value', value='solid'), table\_body\_border\_bottom\_width=OptionsInfo(scss=True, category='table\_body', type='px', value='2px'), table\_body\_border\_bottom\_color=OptionsInfo(scss=True, category='table\_body', type='value', value='#D3D3D3'), data\_row\_padding=OptionsInfo(scss=True, category='data\_row', type='px', value='8px'), data\_row\_padding\_horizontal=OptionsInfo(scss=True, category='data\_row', type='px', value='5px'), stub\_background\_color=OptionsInfo(scss=True, category='stub', type='value', value=None), stub\_font\_size=OptionsInfo(scss=True, category='stub', type='px', value='100%'), stub\_font\_weight=OptionsInfo(scss=True, category='stub', type='value', value='initial'), stub\_text\_transform=OptionsInfo(scss=True, category='stub', type='value', value='inherit'), stub\_border\_style=OptionsInfo(scss=True, category='stub', type='value', value='solid'), stub\_border\_width=OptionsInfo(scss=True, category='stub', type='px', value='2px'), stub\_border\_color=OptionsInfo(scss=True, category='stub', type='value', value='#D3D3D3'), stub\_row\_group\_background\_color=OptionsInfo(scss=True, category='stub', type='value', value=None), stub\_row\_group\_font\_size=OptionsInfo(scss=True, category='stub', type='px', value='100%'), stub\_row\_group\_font\_weight=OptionsInfo(scss=True, category='stub', type='value', value='initial'), stub\_row\_group\_text\_transform=OptionsInfo(scss=True, category='stub', type='value', value='inherit'), stub\_row\_group\_border\_style=OptionsInfo(scss=True, category='stub', type='value', value='solid'), stub\_row\_group\_border\_width=OptionsInfo(scss=True, category='stub', type='px', value='2px'), stub\_row\_group\_border\_color=OptionsInfo(scss=True, category='stub', type='value', value='#D3D3D3'), source\_notes\_padding=OptionsInfo(scss=True, category='source\_notes', type='px', 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value='#D3D3D3'), source\_notes\_multiline=OptionsInfo(scss=False, category='source\_notes', type='boolean', value=True), source\_notes\_sep=OptionsInfo(scss=False, category='source\_notes', type='value', value=' '), row\_striping\_background\_color=OptionsInfo(scss=True, category='row', type='value', value='rgba(128,128,128,0.05)'), row\_striping\_include\_stub=OptionsInfo(scss=False, category='row', type='boolean', value=False), row\_striping\_include\_table\_body=OptionsInfo(scss=False, category='row', type='boolean', value=False), container\_width=OptionsInfo(scss=False, category='container', type='px', value='auto'), container\_height=OptionsInfo(scss=False, category='container', type='px', value='auto'), container\_padding\_x=OptionsInfo(scss=False, category='container', type='px', value='0px'), container\_padding\_y=OptionsInfo(scss=False, category='container', type='px', value='10px'), container\_overflow\_x=OptionsInfo(scss=False, category='container', type='overflow', value='auto'), container\_overflow\_y=OptionsInfo(scss=False, category='container', type='overflow', value='auto'), quarto\_disable\_processing=OptionsInfo(scss=False, category='quarto', type='logical', value=False), quarto\_use\_bootstrap=OptionsInfo(scss=False, category='quarto', type='logical', value=False)), \_has\_built=False)

|  |
| --- |
| Three Last Things 3 |
| Turn the None cells into blank cells. |

gt\_tbl\_12 = (  
 gt\_tbl\_11  
 .sub\_missing(missing\_text="")  
)  
  
gt\_tbl\_12

FileNotFoundError: [Errno 2] No such file or directory: 'C:\\Users\\Hon.Olayinka\\Desktop\\Data Science\\Posit PBC\\img\\grinder.png'  
[1;31m---------------------------------------------------------------------------[0m  
[1;31mFileNotFoundError[0m Traceback (most recent call last)  
File [1;32m~\miniconda3\envs\pydata-book\Lib\site-packages\IPython\core\formatters.py:344[0m, in [0;36mBaseFormatter.\_\_call\_\_[1;34m(self, obj)[0m  
[0;32m 342[0m method [38;5;241m=[39m get\_real\_method(obj, [38;5;28mself[39m[38;5;241m.[39mprint\_method)  
[0;32m 343[0m [38;5;28;01mif[39;00m method [38;5;129;01mis[39;00m [38;5;129;01mnot[39;00m [38;5;28;01mNone[39;00m:  
[1;32m--> 344[0m [38;5;28;01mreturn[39;00m [43mmethod[49m[43m([49m[43m)[49m  
[0;32m 345[0m [38;5;28;01mreturn[39;00m [38;5;28;01mNone[39;00m  
[0;32m 346[0m [38;5;28;01melse[39;00m:  
  
File [1;32m~\miniconda3\envs\pydata-book\Lib\site-packages\great\_tables\gt.py:296[0m, in [0;36mGT.\_repr\_html\_[1;34m(self)[0m  
[0;32m 293[0m make\_page [38;5;241m=[39m defaults[[38;5;124m"[39m[38;5;124mmake\_page[39m[38;5;124m"[39m]  
[0;32m 294[0m all\_important [38;5;241m=[39m defaults[[38;5;124m"[39m[38;5;124mall\_important[39m[38;5;124m"[39m]  
[1;32m--> 296[0m rendered [38;5;241m=[39m [38;5;28;43mself[39;49m[38;5;241;43m.[39;49m[43mas\_raw\_html[49m[43m([49m  
[0;32m 297[0m [43m [49m[43mmake\_page[49m[38;5;241;43m=[39;49m[43mmake\_page[49m[43m,[49m  
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[0;32m 299[0m [43m[49m[43m)[49m  
[0;32m 301[0m [38;5;28;01mreturn[39;00m rendered  
  
File [1;32m~\miniconda3\envs\pydata-book\Lib\site-packages\great\_tables\\_export.py:220[0m, in [0;36mas\_raw\_html[1;34m(self, inline\_css, make\_page, all\_important)[0m  
[0;32m 129[0m [38;5;28;01mdef[39;00m [38;5;21mas\_raw\_html[39m(  
[0;32m 130[0m [38;5;28mself[39m: GT,  
[0;32m 131[0m inline\_css: [38;5;28mbool[39m [38;5;241m=[39m [38;5;28;01mFalse[39;00m,  
[0;32m 132[0m make\_page: [38;5;28mbool[39m [38;5;241m=[39m [38;5;28;01mFalse[39;00m,  
[0;32m 133[0m all\_important: [38;5;28mbool[39m [38;5;241m=[39m [38;5;28;01mFalse[39;00m,  
[0;32m 134[0m ) [38;5;241m-[39m[38;5;241m>[39m [38;5;28mstr[39m:  
[0;32m 135[0m [38;5;250m [39m[38;5;124;03m"""[39;00m  
[0;32m 136[0m [38;5;124;03m Get the HTML content of a GT object.[39;00m  
[0;32m 137[0m   
[1;32m (...)[0m  
[0;32m 217[0m [38;5;124;03m ```[39;00m  
[0;32m 218[0m [38;5;124;03m """[39;00m  
[1;32m--> 220[0m built\_table [38;5;241m=[39m [38;5;28;43mself[39;49m[38;5;241;43m.[39;49m[43m\_build\_data[49m[43m([49m[43mcontext[49m[38;5;241;43m=[39;49m[38;5;124;43m"[39;49m[38;5;124;43mhtml[39;49m[38;5;124;43m"[39;49m[43m)[49m  
[0;32m 222[0m table\_html [38;5;241m=[39m built\_table[38;5;241m.[39m\_render\_as\_html(  
[0;32m 223[0m make\_page[38;5;241m=[39mmake\_page,  
[0;32m 224[0m all\_important[38;5;241m=[39mall\_important,  
[0;32m 225[0m )  
[0;32m 227[0m [38;5;28;01mif[39;00m inline\_css:  
  
File [1;32m~\miniconda3\envs\pydata-book\Lib\site-packages\great\_tables\gt.py:314[0m, in [0;36mGT.\_build\_data[1;34m(self, context)[0m  
[0;32m 311[0m [38;5;28;01mdef[39;00m [38;5;21m\_build\_data[39m([38;5;28mself[39m, context: [38;5;28mstr[39m) [38;5;241m-[39m[38;5;241m>[39m Self:  
[0;32m 312[0m [38;5;66;03m# Build the body of the table by generating a dictionary[39;00m  
[0;32m 313[0m [38;5;66;03m# of lists with cells initially set to nan values[39;00m  
[1;32m--> 314[0m built [38;5;241m=[39m [38;5;28;43mself[39;49m[38;5;241;43m.[39;49m[43m\_render\_formats[49m[43m([49m[43mcontext[49m[43m)[49m  
[0;32m 316[0m [38;5;28;01mif[39;00m context [38;5;241m==[39m [38;5;124m"[39m[38;5;124mlatex[39m[38;5;124m"[39m:  
[0;32m 317[0m built [38;5;241m=[39m \_migrate\_unformatted\_to\_output(  
[0;32m 318[0m data[38;5;241m=[39mbuilt, data\_tbl[38;5;241m=[39m[38;5;28mself[39m[38;5;241m.[39m\_tbl\_data, formats[38;5;241m=[39m[38;5;28mself[39m[38;5;241m.[39m\_formats, context[38;5;241m=[39mcontext  
[0;32m 319[0m )  
  
File [1;32m~\miniconda3\envs\pydata-book\Lib\site-packages\great\_tables\gt.py:307[0m, in [0;36mGT.\_render\_formats[1;34m(self, context)[0m  
[0;32m 304[0m new\_body [38;5;241m=[39m [38;5;28mself[39m[38;5;241m.[39m\_body[38;5;241m.[39mcopy()  
[0;32m 306[0m [38;5;66;03m# TODO: this body method performs a mutation. Should we make a copy of body?[39;00m  
[1;32m--> 307[0m [43mnew\_body[49m[38;5;241;43m.[39;49m[43mrender\_formats[49m[43m([49m[38;5;28;43mself[39;49m[38;5;241;43m.[39;49m[43m\_tbl\_data[49m[43m,[49m[43m [49m[38;5;28;43mself[39;49m[38;5;241;43m.[39;49m[43m\_formats[49m[43m,[49m[43m [49m[43mcontext[49m[43m)[49m  
[0;32m 308[0m new\_body[38;5;241m.[39mrender\_formats([38;5;28mself[39m[38;5;241m.[39m\_tbl\_data, [38;5;28mself[39m[38;5;241m.[39m\_substitutions, context)  
[0;32m 309[0m [38;5;28;01mreturn[39;00m [38;5;28mself[39m[38;5;241m.[39m\_replace(\_body[38;5;241m=[39mnew\_body)  
  
File [1;32m~\miniconda3\envs\pydata-book\Lib\site-packages\great\_tables\\_gt\_data.py:172[0m, in [0;36mBody.render\_formats[1;34m(self, data\_tbl, formats, context)[0m  
[0;32m 170[0m [38;5;28;01mraise[39;00m [38;5;167;01mException[39;00m([38;5;124m"[39m[38;5;124mInternal Error[39m[38;5;124m"[39m)  
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[1;32m--> 172[0m result [38;5;241m=[39m [43meval\_func[49m[43m([49m[43m\_get\_cell[49m[43m([49m[43mdata\_tbl[49m[43m,[49m[43m [49m[43mrow[49m[43m,[49m[43m [49m[43mcol[49m[43m)[49m[43m)[49m  
[0;32m 173[0m [38;5;28;01mif[39;00m [38;5;28misinstance[39m(result, FormatterSkipElement):  
[0;32m 174[0m [38;5;28;01mcontinue[39;00m  
  
File [1;32m~\miniconda3\envs\pydata-book\Lib\site-packages\great\_tables\\_formats.py:3816[0m, in [0;36mFmtImage.to\_html[1;34m(self, val)[0m  
[0;32m 3813[0m filename [38;5;241m=[39m [38;5;28mstr[39m((Path([38;5;28mself[39m[38;5;241m.[39mpath [38;5;129;01mor[39;00m [38;5;124m"[39m[38;5;124m"[39m) [38;5;241m/[39m file)[38;5;241m.[39mexpanduser()[38;5;241m.[39mabsolute())  
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[1;32m-> 3816[0m uri [38;5;241m=[39m [38;5;28;43mself[39;49m[38;5;241;43m.[39;49m[43m\_get\_image\_uri[49m[43m([49m[43mfilename[49m[43m)[49m  
[0;32m 3817[0m [38;5;28;01melse[39;00m:  
[0;32m 3818[0m uri [38;5;241m=[39m filename  
  
File [1;32m~\miniconda3\envs\pydata-book\Lib\site-packages\great\_tables\\_formats.py:3845[0m, in [0;36mFmtImage.\_get\_image\_uri[1;34m(cls, filename)[0m  
[0;32m 3841[0m [38;5;129m@classmethod[39m  
[0;32m 3842[0m [38;5;28;01mdef[39;00m [38;5;21m\_get\_image\_uri[39m([38;5;28mcls[39m, filename: [38;5;28mstr[39m) [38;5;241m-[39m[38;5;241m>[39m [38;5;28mstr[39m:  
[0;32m 3843[0m [38;5;28;01mimport[39;00m [38;5;21;01mbase64[39;00m  
[1;32m-> 3845[0m [38;5;28;01mwith[39;00m [38;5;28;43mopen[39;49m[43m([49m[43mfilename[49m[43m,[49m[43m [49m[38;5;124;43m"[39;49m[38;5;124;43mrb[39;49m[38;5;124;43m"[39;49m[43m)[49m [38;5;28;01mas[39;00m f:  
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[0;32m 3848[0m mime\_type [38;5;241m=[39m [38;5;28mcls[39m[38;5;241m.[39m\_get\_mime\_type(filename)  
  
[1;31mFileNotFoundError[0m: [Errno 2] No such file or directory: 'C:\\Users\\Hon.Olayinka\\Desktop\\Data Science\\Posit PBC\\img\\grinder.png'

GT(\_tbl\_data=shape: (14, 7)  
┌──────────────┬──────────────┬─────────────┬─────────────┬─────────────┬────────────┬─────────────┐  
│ icon ┆ product ┆ revenue\_dol ┆ revenue\_pct ┆ profit\_doll ┆ profit\_pct ┆ monthly\_sal │  
│ --- ┆ --- ┆ lars ┆ --- ┆ ars ┆ --- ┆ es │  
│ str ┆ str ┆ --- ┆ f64 ┆ --- ┆ f64 ┆ --- │  
│ ┆ ┆ f64 ┆ ┆ f64 ┆ ┆ list[i64] │  
╞══════════════╪══════════════╪═════════════╪═════════════╪═════════════╪════════════╪═════════════╡  
│ grinder.png ┆ Grinder ┆ 904500.0 ┆ 0.03 ┆ 567960.0 ┆ 0.04 ┆ [521, 494, │  
│ ┆ ┆ ┆ ┆ ┆ ┆ … 751] │  
│ moka-pot.png ┆ Moka pot ┆ 2.04525e6 ┆ 0.07 ┆ 181080.0 ┆ 0.01 ┆ [4726, │  
│ ┆ ┆ ┆ ┆ ┆ ┆ 4741, … │  
│ ┆ ┆ ┆ ┆ ┆ ┆ 6283] │  
│ cold-brew.pn ┆ Cold brew ┆ 288750.0 ┆ 0.01 ┆ 241770.0 ┆ 0.02 ┆ [244, 249, │  
│ g ┆ ┆ ┆ ┆ ┆ ┆ … 244] │  
│ filter.png ┆ Filter ┆ 404250.0 ┆ 0.01 ┆ 70010.0 ┆ 0.0 ┆ [2067, │  
│ ┆ ┆ ┆ ┆ ┆ ┆ 1809, … │  
│ ┆ ┆ ┆ ┆ ┆ ┆ 2744] │  
│ drip-machine ┆ Drip machine ┆ 2.632e6 ┆ 0.09 ┆ 1.37445e6 ┆ 0.09 ┆ [2137, │  
│ .png ┆ ┆ ┆ ┆ ┆ ┆ 1623, … │  
│ ┆ ┆ ┆ ┆ ┆ ┆ 2328] │  
│ … ┆ … ┆ … ┆ … ┆ … ┆ … ┆ … │  
│ chemex.png ┆ Chemex ┆ 3.13725e6 ┆ 0.11 ┆ 817680.0 ┆ 0.06 ┆ [4938, │  
│ ┆ ┆ ┆ ┆ ┆ ┆ 4167, … │  
│ ┆ ┆ ┆ ┆ ┆ ┆ 7220] │  
│ scale.png ┆ Scale ┆ 3.801e6 ┆ 0.13 ┆ 2.91029e6 ┆ 0.2 ┆ [1542, │  
│ ┆ ┆ ┆ ┆ ┆ ┆ 1566, … │  
│ ┆ ┆ ┆ ┆ ┆ ┆ 3180] │  
│ kettle.png ┆ Kettle ┆ 756250.0 ┆ 0.03 ┆ 617520.0 ┆ 0.04 ┆ [1139, │  
│ ┆ ┆ ┆ ┆ ┆ ┆ 1023, … │  
│ ┆ ┆ ┆ ┆ ┆ ┆ 1529] │  
│ espresso-mac ┆ Espresso ┆ 8.406e6 ┆ 0.29 ┆ 3.63644e6 ┆ 0.25 ┆ [686, 840, │  
│ hine.png ┆ Machine ┆ ┆ ┆ ┆ ┆ … 2577] │  
│ null ┆ Total ┆ 2.94485e7 ┆ 1.0 ┆ 1.479315e7 ┆ 1.0 ┆ null │  
└──────────────┴──────────────┴─────────────┴─────────────┴─────────────┴────────────┴─────────────┘, \_body=<great\_tables.\_gt\_data.Body object at 0x000001C85B5878D0>, \_boxhead=Boxhead([ColInfo(var='icon', type=<ColInfoTypeEnum.default: 1>, column\_label='icon', column\_align='left', column\_width=None), ColInfo(var='product', type=<ColInfoTypeEnum.default: 1>, column\_label='product', column\_align='left', column\_width=None), ColInfo(var='revenue\_dollars', type=<ColInfoTypeEnum.default: 1>, column\_label='Amount', column\_align='right', column\_width=None), ColInfo(var='revenue\_pct', type=<ColInfoTypeEnum.default: 1>, column\_label='Percent', column\_align='right', column\_width=None), ColInfo(var='profit\_dollars', type=<ColInfoTypeEnum.default: 1>, column\_label='Amount', column\_align='right', column\_width=None), ColInfo(var='profit\_pct', type=<ColInfoTypeEnum.default: 1>, column\_label='Percent', column\_align='right', column\_width=None), ColInfo(var='monthly\_sales', 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mask=None), grpname=None, colname='monthly\_sales', rownum=13, colnum=None, styles=[CellStyleText(color=None, font=None, size=None, align=None, v\_align=None, style=None, weight='bold', stretch=None, decorate=None, transform=None, whitespace=None)])], \_locale=<great\_tables.\_gt\_data.Locale object at 0x000001C85B585C50>, \_formats=[<great\_tables.\_gt\_data.FormatInfo object at 0x000001C85B730F90>, <great\_tables.\_gt\_data.FormatInfo object at 0x000001C85B134850>, <great\_tables.\_gt\_data.FormatInfo object at 0x000001C85B5CC6D0>, <great\_tables.\_gt\_data.FormatInfo object at 0x000001C85B5CC5D0>], \_substitutions=[<great\_tables.\_gt\_data.FormatInfo object at 0x000001C85B5E6290>], \_options=Options(table\_id=OptionsInfo(scss=False, category='table', type='value', value=None), table\_caption=OptionsInfo(scss=False, category='table', type='value', value=None), table\_width=OptionsInfo(scss=True, category='table', type='px', value='auto'), table\_layout=OptionsInfo(scss=True, 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type='boolean', value=False), row\_group\_background\_color=OptionsInfo(scss=True, category='row\_group', type='value', value=None), row\_group\_font\_size=OptionsInfo(scss=True, category='row\_group', type='px', value='100%'), row\_group\_font\_weight=OptionsInfo(scss=True, category='row\_group', type='value', value='initial'), row\_group\_text\_transform=OptionsInfo(scss=True, category='row\_group', type='value', value='inherit'), row\_group\_padding=OptionsInfo(scss=True, category='row\_group', type='px', value='8px'), row\_group\_padding\_horizontal=OptionsInfo(scss=True, category='row\_group', type='px', value='5px'), row\_group\_border\_top\_style=OptionsInfo(scss=True, category='row\_group', type='value', value='solid'), row\_group\_border\_top\_width=OptionsInfo(scss=True, category='row\_group', type='px', value='2px'), row\_group\_border\_top\_color=OptionsInfo(scss=True, category='row\_group', type='value', value='#D3D3D3'), row\_group\_border\_right\_style=OptionsInfo(scss=True, category='row\_group', type='value', value='none'), row\_group\_border\_right\_width=OptionsInfo(scss=True, category='row\_group', type='px', value='1px'), row\_group\_border\_right\_color=OptionsInfo(scss=True, category='row\_group', type='value', value='#D3D3D3'), row\_group\_border\_bottom\_style=OptionsInfo(scss=True, category='row\_group', type='value', value='solid'), row\_group\_border\_bottom\_width=OptionsInfo(scss=True, category='row\_group', type='px', value='2px'), row\_group\_border\_bottom\_color=OptionsInfo(scss=True, category='row\_group', type='value', value='#D3D3D3'), row\_group\_border\_left\_style=OptionsInfo(scss=True, category='row\_group', type='value', value='none'), row\_group\_border\_left\_width=OptionsInfo(scss=True, category='row\_group', type='px', value='1px'), row\_group\_border\_left\_color=OptionsInfo(scss=True, category='row\_group', type='value', value='#D3D3D3'), row\_group\_as\_column=OptionsInfo(scss=False, category='row\_group', type='boolean', value=False), table\_body\_hlines\_style=OptionsInfo(scss=True, category='table\_body', type='value', value='solid'), table\_body\_hlines\_width=OptionsInfo(scss=True, category='table\_body', type='px', value='1px'), table\_body\_hlines\_color=OptionsInfo(scss=True, category='table\_body', type='value', value='#D3D3D3'), table\_body\_vlines\_style=OptionsInfo(scss=True, category='table\_body', type='value', value='none'), table\_body\_vlines\_width=OptionsInfo(scss=True, category='table\_body', type='px', value='1px'), table\_body\_vlines\_color=OptionsInfo(scss=True, category='table\_body', type='value', value='#D3D3D3'), table\_body\_border\_top\_style=OptionsInfo(scss=True, category='table\_body', type='value', value='solid'), table\_body\_border\_top\_width=OptionsInfo(scss=True, category='table\_body', type='px', value='2px'), table\_body\_border\_top\_color=OptionsInfo(scss=True, category='table\_body', type='value', value='#D3D3D3'), table\_body\_border\_bottom\_style=OptionsInfo(scss=True, category='table\_body', type='value', value='solid'), table\_body\_border\_bottom\_width=OptionsInfo(scss=True, category='table\_body', type='px', value='2px'), table\_body\_border\_bottom\_color=OptionsInfo(scss=True, category='table\_body', type='value', value='#D3D3D3'), data\_row\_padding=OptionsInfo(scss=True, category='data\_row', type='px', value='8px'), data\_row\_padding\_horizontal=OptionsInfo(scss=True, category='data\_row', type='px', value='5px'), stub\_background\_color=OptionsInfo(scss=True, category='stub', type='value', value=None), stub\_font\_size=OptionsInfo(scss=True, category='stub', type='px', value='100%'), stub\_font\_weight=OptionsInfo(scss=True, category='stub', type='value', value='initial'), stub\_text\_transform=OptionsInfo(scss=True, category='stub', type='value', value='inherit'), stub\_border\_style=OptionsInfo(scss=True, category='stub', type='value', value='solid'), stub\_border\_width=OptionsInfo(scss=True, category='stub', type='px', value='2px'), stub\_border\_color=OptionsInfo(scss=True, category='stub', type='value', value='#D3D3D3'), stub\_row\_group\_background\_color=OptionsInfo(scss=True, category='stub', type='value', value=None), stub\_row\_group\_font\_size=OptionsInfo(scss=True, category='stub', type='px', value='100%'), stub\_row\_group\_font\_weight=OptionsInfo(scss=True, category='stub', type='value', value='initial'), stub\_row\_group\_text\_transform=OptionsInfo(scss=True, category='stub', type='value', value='inherit'), stub\_row\_group\_border\_style=OptionsInfo(scss=True, category='stub', type='value', value='solid'), stub\_row\_group\_border\_width=OptionsInfo(scss=True, category='stub', type='px', value='2px'), stub\_row\_group\_border\_color=OptionsInfo(scss=True, category='stub', type='value', value='#D3D3D3'), source\_notes\_padding=OptionsInfo(scss=True, category='source\_notes', type='px', value='4px'), source\_notes\_padding\_horizontal=OptionsInfo(scss=True, category='source\_notes', type='px', value='5px'), source\_notes\_background\_color=OptionsInfo(scss=True, category='source\_notes', type='value', value=None), source\_notes\_font\_size=OptionsInfo(scss=True, category='source\_notes', type='px', value='90%'), source\_notes\_border\_bottom\_style=OptionsInfo(scss=True, category='source\_notes', type='value', value='none'), source\_notes\_border\_bottom\_width=OptionsInfo(scss=True, category='source\_notes', type='px', value='2px'), source\_notes\_border\_bottom\_color=OptionsInfo(scss=True, category='source\_notes', type='value', value='#D3D3D3'), source\_notes\_border\_lr\_style=OptionsInfo(scss=True, category='source\_notes', type='value', value='none'), source\_notes\_border\_lr\_width=OptionsInfo(scss=True, category='source\_notes', type='px', value='2px'), source\_notes\_border\_lr\_color=OptionsInfo(scss=True, category='source\_notes', type='value', value='#D3D3D3'), source\_notes\_multiline=OptionsInfo(scss=False, category='source\_notes', type='boolean', value=True), source\_notes\_sep=OptionsInfo(scss=False, category='source\_notes', type='value', value=' '), row\_striping\_background\_color=OptionsInfo(scss=True, category='row', type='value', value='rgba(128,128,128,0.05)'), row\_striping\_include\_stub=OptionsInfo(scss=False, category='row', type='boolean', value=False), row\_striping\_include\_table\_body=OptionsInfo(scss=False, category='row', type='boolean', value=False), container\_width=OptionsInfo(scss=False, category='container', type='px', value='auto'), container\_height=OptionsInfo(scss=False, category='container', type='px', value='auto'), container\_padding\_x=OptionsInfo(scss=False, category='container', type='px', value='0px'), container\_padding\_y=OptionsInfo(scss=False, category='container', type='px', value='10px'), container\_overflow\_x=OptionsInfo(scss=False, category='container', type='overflow', value='auto'), container\_overflow\_y=OptionsInfo(scss=False, category='container', type='overflow', value='auto'), quarto\_disable\_processing=OptionsInfo(scss=False, category='quarto', type='logical', value=False), quarto\_use\_bootstrap=OptionsInfo(scss=False, category='quarto', type='logical', value=False)), \_has\_built=False)