

Google Data Studio Glossary

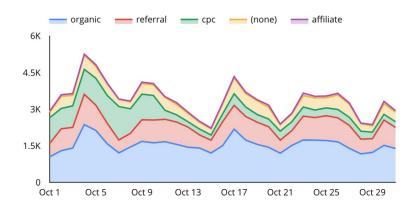
A guide to the most important Google Data Studio terminology by Benjamin Mangold

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Area chart

Area charts allow you to present data for a particular period, but they also allow you to segment the data by choosing a breakdown dimension. For example, when using Google Analytics data, the area chart will show you traffic by day broken down by traffic source.



Arrange

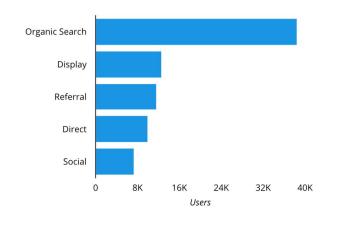
Choose how charts and elements are arranged in the report. You can place elements so they are in front or behind other items. Here are some keyboard shortcuts you can use to speed things up (replace \mathfrak{H} with CTRL if you're using Windows):

- Bring to front \mathbb{H} +Shift+ \uparrow
- Bring forward \mathbb{H} + 1
- Send backward \mathbb{H} + \downarrow
- Send to back \mathbb{H} +Shift+ \downarrow

You can also select multiple elements to align them horizontally, vertically, or distribute them. See also make report-level and group.

Bar chart

Bar charts allow you to categorize and rank data. For example, a bar chart can be used to compare product sales, marketing channels and more.

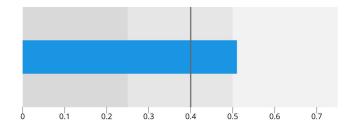


Blended Data

Combine data from multiple data sources into a single chart by creating 'blended data'. To combine data, you will need to add at least two data sources to your report and then choose a common dimension (called a 'join key') from both data sources.

Bullet chart

A bullet chart allows you to add a single metric to your report. Bullet charts can be useful for presenting KPIs because you can set a target for the metric.



Cache

Google Data Studio caches queries and pre-fetches data to speed up reporting. In most cases, this won't impact on your reports. However, you do have the option of disabling the 'Prefetch cache' if your data changes frequently.

Calculated field

Calculated fields (or custom fields) allow you to create new metrics and dimensions based on existing metrics and dimensions available from your data source.

Calculated field formula

You can input different types of formulas to create calculated fields. You can use basic math formulas:

- Addition: +
- Subtraction: -
- Division: /
- Multiplication: *

And you can use functions:

- Aggregation, including SUM() and COUNT()
- Arithmetic, including ROUND()
- Date, including DAY(), WEEK() and YEAR()
- Geographic, including TOCITY() and TOCOUNTRY()
- Text, including LOWER() and REGEXP_REPLACE()

You can also use CASE statements to modify values. For example, if you wanted to clean up campaign names in your report you could use a formula like:

CASE

WHEN REGEXP_MATCH(Campaign, ".*(AW - Dynamic

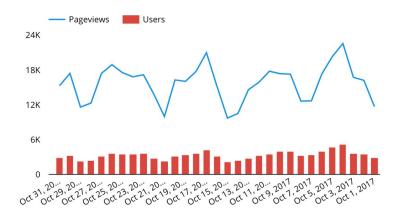
Search Ads Whole Site AW - Accessories)") THEN "Ads" WHEN REGEXP_MATCH(Campaign, "(Data Share Promo Special Promo)") THEN "Promotion" ELSE "Other" END

Canvas size

You can change the size of the pages in a report by adjusting the canvas size. You can select from US letter (portrait and landscape), screen (portrait and landscape) and custom.

Combo chart

A combination chart allows you to combine a bar chart with a time series. See also bar chart and time series.



Community Connectors

Apart from the built-in data connectors, you can also make use of third-party connectors. These can make it easier to pull data from other platforms into Google Data Studio. For example, <u>Supermetrics</u> (affiliate link) provides a range of community connectors, allowing you to connect Bing Ads, Facebook Ads, Facebook Insights, Instagram and more. These third-party connectors generally require a paid subscription. See also connector.

Compact numbers

When data is presented in a chart, like a table, you can choose to display the full metric (number) or a short number. For example, a metric with the value of 10,398 would be shown at 10K as a compact number. To use a compact number select the 'Style' tab on the properties panel after you've selected a chart.

Connector

A connector allows you to link a data source to your report. For example, the Google Analytics connector allows you to select a reporting view and data from that view is then made available in your report. You can use multiple data connectors with a report to bring data from different platforms together in a single report.

Connectors include:

- Google Analytics
- Google Ads
- Google Sheets
- BigQuery
- File upload
- MySQL
- Search Console
- YouTube Analytics
- Etc.

Control

You can add a control to your report to make it more dynamic. For example, adding an 'Input Box' control lets people search for values in a report. Control options include drop-down lists, fixed lists, inputs, advanced filters, sliders, and checkboxes. See also date range control and data control.

Current page settings

The current page settings allow you to select a data source for all of the charts on the current page. You can then select a default date range and filter for all the charts. The current page settings are available under the 'Page' drop-down.

Data control

You can add a data control to quickly change the data used for the charts when viewing the report. For example, adding a Google Analytics data control allows you to quickly switch between the reporting views you have access to, to update the tables in the report.

Data controls are currently available for:

- Google Analytics
- YouTube Analytics
- Google Ads
- Campaign Manager
- Search Console
- Google Ad Manager 360

You can also select one or more charts and group them with the data control. Only the grouped charts are updated with the selected data source. <u>Watch a video on data control</u>.

Data Source

Once a platform is connected to Google Data Studio, it becomes a data source for the report. A data source includes all of the dimensions and metrics from the selected platform, as well as any calculated fields that have been created. See also connector.

The data source also allows you to modify how metrics and dimensions are treated in the report. For example, you can change a metric from a number to a percent, and decide if the data should be aggregated or not.

Data Source Access

When you add a data source, it will automatically make the data available to anybody who has access to the report. This is the default option which is 'owner's credentials'. You can also require that anyone who has access to the report also needs access to the underlying dataset. To do this, you'll need to select 'viewer's credentials' for the data source.

Data Tab

After selecting a chart the 'Data' tab will load in the chart properties panel. This allows you to select the chart type, data source, dimension, metric and other chart configurations.

Date range

Each chart has a date range which determines the amount of data that it presents. The default date range can be changed to a custom date range. Custom date ranges can be fixed (and not change) or dynamic which will mean the data will be different depending on when you view the report. Dynamic date range options include:

- Last 7 days
- Last 14 days
- Last 28 days
- Last 30 days
- Today
- Yesterday
- This week
- Last week
- This month
- Last month
- This quarter
- Last quarter
- This year
- Last year
- Advanced

Default date range

The default date range for charts is the last 28 days worth of data, excluding today.

Dimension

A dimension is typically information, like an attribute or characteristic. For example, if you connected data from Google Ads, then common dimensions include the name of your campaigns and your keywords. See also metric and <u>dimension in the Google Analytics Glossary</u>.

Time dimension

The time series chart allows you to select a time dimension. This allows you to control how your data is graphed. By default, each point on the chart will be for an individual day (by date), but you can choose from other time dimensions including; hour, day of week, month

of year and so on. Other charts, for example, bar charts, also allow you to select a dimension based on time to present data.

Breakdown dimension

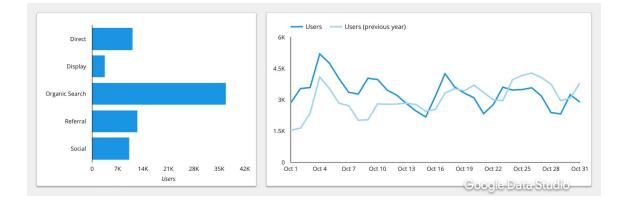
The breakdown dimension allows you to apply a second dimension to a chart to see more detail. For example, with a Google Analytics data source, an area chart will use 'date' as the dimension and 'medium' as the breakdown dimension. This visualizes the top ways people are finding your website for each day in the chart.

Dimension value colors

Dimension value colors allow you to choose the color used for a unique value across all of the charts in your report. For example, if you have multiple charts that compare paid and organic traffic, then the dimension value color means that 'organic search' and 'paid search' will always be presented using the same colors, even if they are in different charts. You can adjust the colors for each dimension value in your report.

Embed report

You can embed a report on your website by enabling the embedding option. This works in combination with the sharing and data source access setting for the report. If you want an embedded report to be viewed by anybody (like the example below), then you'll need to set sharing to 'Anyone with the link can view'.



Explorer

The 'Explorer' tool lets you present data in a single chart. It's designed to streamline data exploration by quickly presenting data. You can apply filters and change charts, but sharing and other features are limited. Explorer reports are not automatically saved.

Export data

When viewing a report you can export the underlying data used for a chart. To do this hover over the chart, select the three vertical dots on the top right corner and then select one of the export options.

Field

A field is a dimension or a metric which is used in your report. After you've added a data source all of the fields will be available to use in your charts. Google Data Studio highlights dimensions in green and metrics in blue. See also dimension and metric.

Field Aggregation

Field aggregation allows you to control how metrics are treated. For built-in data connectors, like Google Analytics, Google Ads and Search Console, you can leave the aggregation on 'Auto'. For other data sources and calculated fields you can choose from the following options:

- None
- Average
- Count
- Count distinct
- Maximum
- Minimum
- Sum

Field Index

Each field is assigned an index. This is a number that corresponds to an individual dimension or metric.

Field Type

The field type controls how the dimension or metric is treated in your reports. For example, if you add Google Analytics as a data source, then the 'users' metric will have a 'number' as the field type. This is because the users metric should show the total number of users in our report. Compared to bounce rate which will have 'percent' as the field type. When you connect third-party data sources, it's important to check the field type to ensure the dimension or metric is presented correctly in your charts. Field types include:

- Numeric
- Text
- Date and time
- Boolean
- Geographic
- Currency
- URL

Field editing

Field editing allows you to change how fields are defined for individual charts. This is like changing the field type, but instead of changing the metric or dimension for the entire data source, it is only changed for the individual chart. To use field editing, select a chart and then click the chart type icon to the left of the dimension or metric name.

Filter

Filters can be applied to a chart to modify the data that it uses. Filters allow you to include or exclude particular pieces of data using conditions. You can use 'or' and 'and' statements within a filter to further refine the data that is included in the chart. Once a filter has been created it can be applied to multiple charts in the report.

Filter control

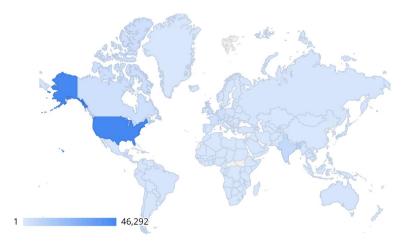
Adding a filter control allows people viewing the report to control the data that is included. Filter controls will update all of the charts on a page unless the filter control has been grouped with a chart (or charts), in which case, only the charts in the group will be changed.

Full-screen

You can view a report in full-screen mode by selecting the full-screen icon at the top of the window.

Geo map

The geo map chart allows you to present data using a geographic map. See also zoom area.



Google Maps

This visualization option presents data on a Google Map. You can choose to use a graphic map or a satellite map.

Group

You can group charts, date range, filter control and data control elements in your report. When you group elements you can select a data source, default date range and filter for all the selected charts.

Header visibility

When viewing a report, you will see the name of the report, pagination and other options at the top of the window. The default option for header visibility is 'always show', but you can also select 'auto hide' and 'initially hidden'. See also view mode.

Heatmap

The table and pivot table chart types allow you to apply a heatmap to the data that's presented. For example, this can be used to highlight pages that have a higher bounce rate.

	Page	Bounce Rate	Pageviews 🔹	Page Value
1.	/	56.7%	98,496	\$3,384.31
2.	/google+redesign/shop+by+brand/youtube	58.12%	24,845	\$1,966.86
3.	/basket.html	41.22%	18,686	\$4,767.32
4.	/google+redesign/spring+sale	54.86%	16,941	\$5,123.98
5.	/signin.html	29.35%	14,158	\$5,634.47
6.	/google+redesign/nest/nest-usa	21.64%	12,766	\$6,579.78
7.	/google+redesign/apparel/mens/mens+t+shirts	38.9%	12,208	\$5,145.23
8.	/home/nest/nest-usa//quickview	0%	8,637	\$7,420.88
9.	/yourinfo.html	77.78%	8,216	\$1,556.47
10.	/google+redesign/electronics	53.96%	8,057	\$4,644.32

Image

You can add images, like logos to your Google Data Studio reports.

Keyboard shortcuts

Here are some handy keyboard shortcuts you can use with Google Data Studio (replace % with CTRL if you're using Windows):

- Copy: _+C
- Paste: \#+V
- Undo: \#+Z
- Redo: \\+Y
- Select All: \\+A
- Select None: \\+Shift+A
- Group: \\+G
- Ungroup: \+Shift+G
- Bring to front \mathbb{H} +Shift+ \uparrow
- Bring forward \Re + 1
- Send backward \mathbb{H} + \downarrow

- Send to back \mathbb{H} +Shift+ \downarrow
- Refresh Data: \H+Shift+E
- Next page: Page Down
- Previous Page: Page Up
- View element settings: Control + click element
- Move elements: \uparrow , \downarrow , \leftarrow and \rightarrow
- Move element without snapping: click element, begin moving it and hold Shift

Log scale

Selecting the log scale option will mean that the x-axis in a chart does not equally space the values. For example, instead of the intervals being at 0, 5K, 10K, 15K and 20K, they could be presented at 1, 10, 100, 1K, 10K and 100K. In most cases, you should avoid using log scale as it makes it difficult to interpret the data.

Make report-level

You can select elements on a page, select 'Arrange' and then 'Make report-level'. This means that the selected elements will be placed on every page in the report. This is useful if you want to include consistent branding or other elements on every page, like a filter control or data control.

Make page-level

If an element has been applied to all of the pages in the report with the make report-level option, you can remove this by selecting the element, then 'Arrange' and 'Make page-level'. This will mean the element is now only applied to the current page.

Metric

A metric is typically a number, like a numerical count or a percentage. For example, metrics include the number of users from Google Analytics and the number of ad clicks from Google Ads. See also dimension and <u>metric in the Google Analytics Glossary</u>.

Metric Sliders

Enabling the 'Metric Sliders' option lets you adjust the range for metrics included in a chart. For example, if a table contains rows with values from 100 to 10,000, you can use the slider when viewing the report to only show rows with values from 1,000 to 2,000 (or any other available range).

Navigation position

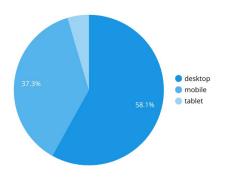
You can change the position of pagination using navigation position. The default position is 'top', enabling you to navigate between pages on the top left corner of the report. This can be changed to 'left' which shows all the pages of the report to the left of the report canvas.

Page

You can add additional pages to the report and copy existing pages. Select the current page when editing the report and then click 'Add a new page' or select the three vertical dots for an existing page and then select 'Duplicate'.

Pie chart

Pie charts allow you to structure data so you can see the percentage breakdown.



Pivot table

Pivot tables allow you to add multiple dimensions for a more granular view of the data. For example, you can use a pivot table to understand the performance of your marketing channels and landing pages using data from Google Analytics.

				Landing	Page / Smart	Goals (Goal 13	Completions)
Default Channel Grouping	/	/google+re	/google+re	/google+re	/signin.html	/basket.html	/google+re
Referral	1,078	424	26	9	78	69	28
Organic Search	638	15	75	106	13	27	21
Direct	415	46	10	12	25	9	32
Social	39	11	150	3	1	1	3
Affiliates	200	1	2	1	2	2	4
Paid Search - Generic	138		-	-	2	2	1
Display	46				2		1
(Other)	2	-			-	-	-
Email	1	-	-	-	-	-	1
Grand total	2,557	497	263	131	123	110	91

Range limits

Bullet charts include range limits which allow you to set the range for the minimum, middle and maximum range values. You can think of range limits as a way to set the lower, middle and upper targets for a metric. See also bullet chart.

Refresh data

You can refresh the data in a report by clicking the refresh icon at the top of the window. This will fetch current data (based on the date range of the charts) from the data sources.

Report settings

Report settings allow you to set a default data source, default date range, filter, cache and other options for all the charts in the report. You can also track how people use your report by adding a Google Analytics tracking ID. You can access the report settings by selecting 'File' and then 'Report settings'.

Report-level component position

You can choose if elements that have been added to all pages with the make report-level option are placed above (by selecting 'Top') or below (by selecting 'Bottom') all other elements on pages. To set the report-level component position click on the canvas (and deselect any charts). The setting is available at the bottom of the 'Layout' tab.

Resources

There are some resources you can manage for your report, including the data sources, segments from Google Analytics and filters. To manage resources for the report, select 'Resource' and then choose from the resource options.

Manage added data sources

You can view, edit, remove and add data sources by selecting 'Manage added data sources' under 'Resource'. See also data source.

Manage segments

Selecting 'Manage segments' under 'Resource' allows you to view segments that have been added to charts from Google Analytics. By default, segments will be synchronized with Google Analytics, which means any changes to the segment in Google Analytics will be reflected in the report. Disabling this option will mean the segment stays the same, even if it is updated in Google Analytics. You can also edit segments and remove segments. See also segment.

Manage filters

You can view, edit, remove and add filters by selecting 'Manage filters' under 'Resource'. See also filter.

Manage dimension value colors

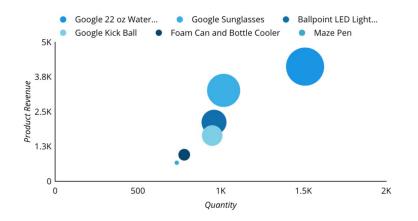
You can view, edit and add dimension value colors by selecting 'Manage dimension value colors' under 'Resource'. See also dimension value colors.

Segment

Charts that use data from Google Analytics can have segments from Google Analytics applied to them. This allows you to control the data that is included (or excluded) for a chart. Segments provide greater flexibility compared to filters. See also filters and <u>Segment in the Google Analytics Glossary</u>.

Scatter chart

A scatter chart allows you to compare multiple metrics in a single chart.



Scorecard

A scorecard allows you to add a single metric to a report. Scorecards can also include a date range comparison to highlight whether the value of the metric has increased or decreased.

Bounce Rate

51.00% • -5.5%

Share

You can share a report with others using the flexible sharing options. Sharing options include:

- **Public on the web:** people can find and view your report without having to log in
- Anyone with the link: anybody with the link can view the report without having to log in
- Anyone at your company: if you use G Suite, then users can log in and view the report
- Anyone at your company with the link: they need a G Suite login and the link to the report
- Shared with specific people: you need to add people's Google Account for them to view the report

You can choose if people can edit or simply view the report. See also data source access.

Sort

You can control how data is sorted in a chart by setting the sorting metric and choosing either 'Descending' or 'Ascending'.

Secondary sort

You can add a secondary sort to tables and other charts in Google Data Studio. This allows you to keep the primary sort while applying the secondary sort. For example, if you have the primary sort set to 'bounce rate' and the secondary sort set to 'page views', you can then focus on pages that have the highest bounce rate and the highest number of page views.

Style

You can style charts and reports using a range of options, including colors, fonts, backgrounds and borders. Selecting a chart (or charts) allows you to select the 'Style' tab in the properties panel on the right of the window. See also theme.

Table

You can add a table to your report to include multiple metrics for a dimension (or dimensions). Tables are useful when you need to provide more granular data in a report.

	Page	Pageviews 🔻	Bounce Rate	Page Value
1.	/	80,135	58.74%	\$3,227.05
2.	/google+redesign/shop+by+brand/youtube	23,409	61.39%	\$1,526.15
3.	/basket.html	15,741	44.88%	\$4,709.97
4.	/google+redesign/spring+sale	14,493	55.73%	\$5,075.26
5.	/signin.html	12,344	36.44%	\$5,331.88
6.	/google+redesign/nest/nest-usa	11,538	25.13%	\$6,464.03
7.	/yourinfo.html	10,695	0%	\$1,633.81
8.	/google+redesign/apparel/mens/mens+t+shirts	9,936	42.08%	\$4,824.31
9.	/home/nest/nest-usa//quickview	6,802	0%	\$7,367.29
10.	/store.html	6,117	47.16%	\$6,055.21

Text

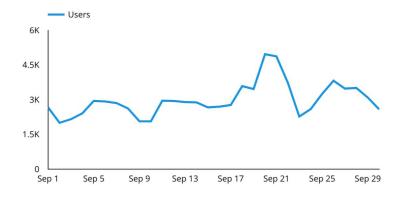
You can add additional text to reports for headings, subheadings and other descriptions using the text option.

Theme

Instead of styling individual charts you can modify colors, fonts and other elements with the report theme. To view the theme select the report canvas (and deselect any charts), then select 'Theme' on the layout and theme panel on the right of the window. See also style.

Time series

A time series allows you to view trends in data for the date range.



Toggle grid

When editing a report there is a visible grid that makes aligning charts and other elements easier. You can hide the grid when editing a report by selecting 'View' and then 'Toggle grid'.

Treemap

Show the relative relationship between dimension values based on a metric.

Trendline

You can add a trendline to a time series chart to show the overall trend of the data. To add a trendline, select the chart, select the 'Style' tab in the properties panel on the right and then select the type of trendline you would like to add. You can add the following types of trendlines:

Linear

The linear trendline adds a straight line that follows the data in the chart.

Exponential

The exponential trendline is used to show the trend in data that is accelerating or decelerating (in other words rising or falling at a rapid rate).

Polynomial

The polynomial trendline is a curved line that is useful for data that changes over time.

URL Embed

Embed content in your report from other websites. For example, you can embed your website in a report, a video from YouTube, a Google Sheet, etc.

View mode

Clicking on the report canvas (and deselecting any charts) shows you the layout and theme settings. Under the 'Layout' tab are the 'View mode' options. You can use these to adjust how the report is displayed when it's being viewed.

You can choose to hide the report header, change where the page navigation is positioned and resize the report to the screen size.

Zoom area

When using the geographic map chart you can choose the zoom area. This allows you to control how much of the world map is included in the chart. You can choose continent and subcontinent regions using the zoom area.

Wrap Up

This glossary is designed to cover the most important terminology you'll find in your Google Data Studio account and reports. Understanding these terms will help build your understanding of Google Data Studio.

I'd love to hear from you! You can contact me at <u>hello@lovesdata.com</u> – I'm looking forward to hearing how you're using Google Data Studio.

When you're ready to learn more about Google Data Studio, Google Analytics, Google Ads and other important tools, join me in my courses. You can find details at <u>https://lovesdata.co/Sj9g6</u>

– Benjamin

