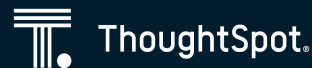


BEYOND.2022



Writing custom charts with D3 & ThoughtSpot Everywhere

Subhead goes here

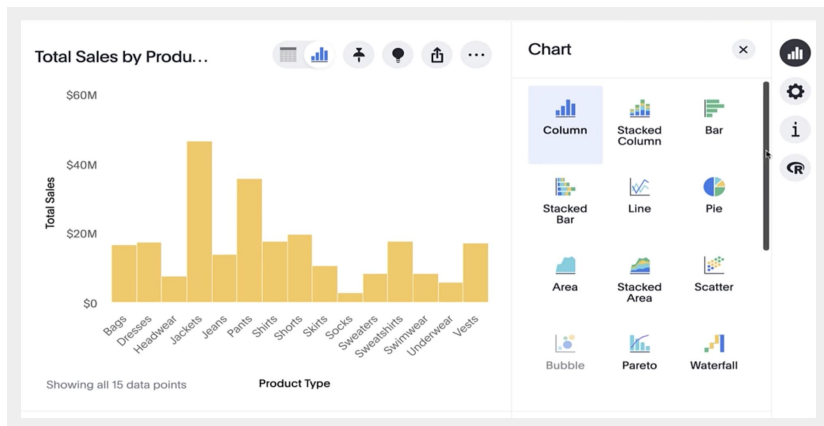


Quinton Wall

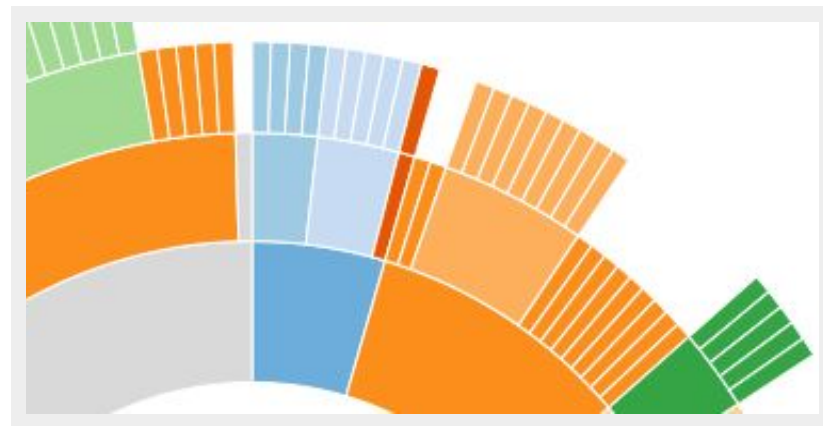
Head of Developer Relations

ThoughtSpot

ThoughtSpot Everywhere Charting Options



Embed provided charts with TSE



Use Custom Charting library

D3 Sample App for ThoughtSpot

React app configured to use TSE sample data

Example chart types for gauge, bubble map, sunburst, radial, pie, wordcloud and more.

Helper libraries for working with TSE REST APIs and D3 charts to help you add your own.



Got CodeSpot?

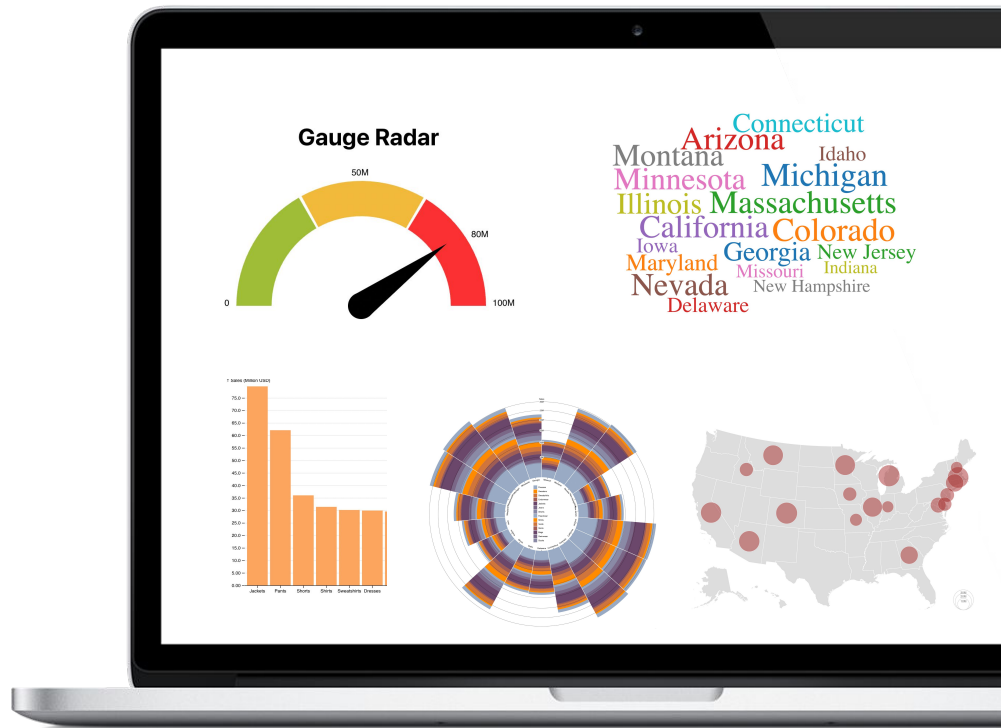
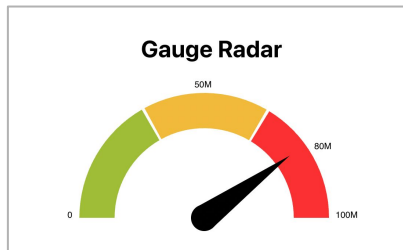
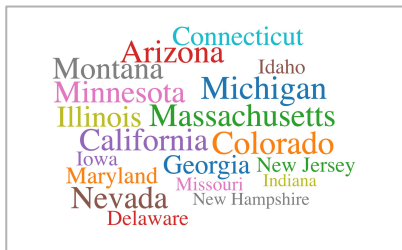


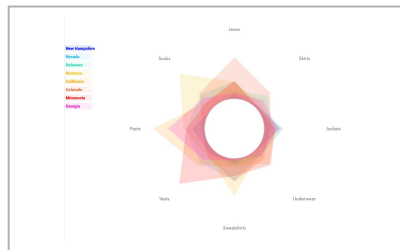
Chart types included



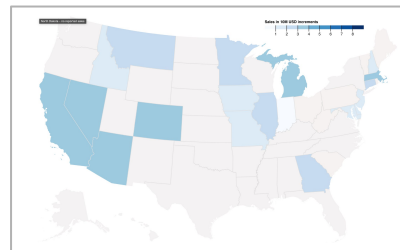
Gauge



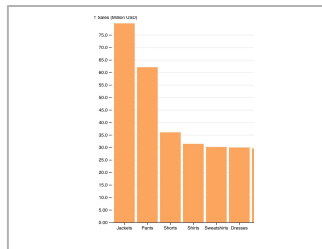
Wordcloud



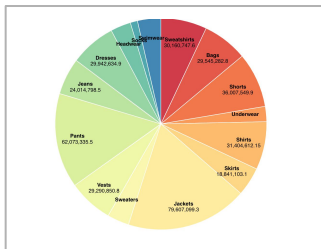
Interactive radar



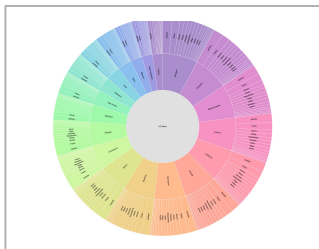
Choropleth



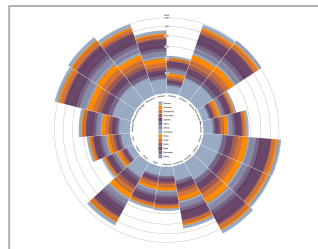
Bar



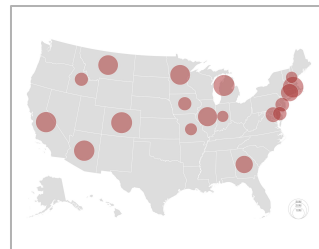
Pie



Sunburst



Radial stacked



Bubble map

Three steps to get started



01

Define & test your
search

02

Configure your
project with helpers

03

Map JSON response to
chart type

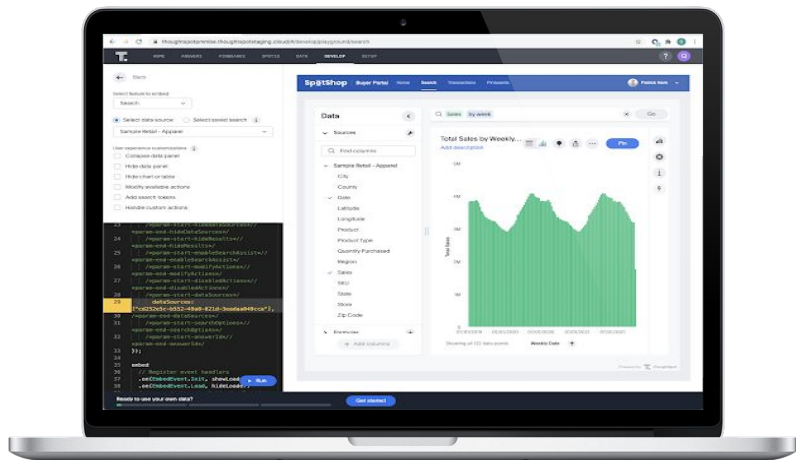
Demo: Bar Chart



`"[sales] [item type]"`

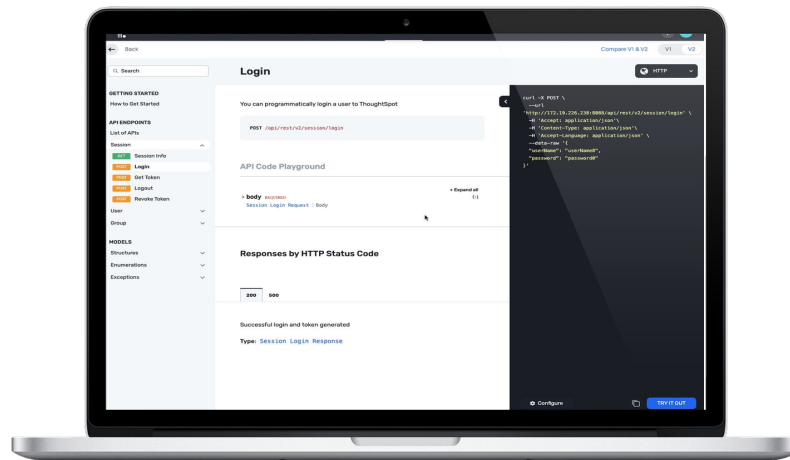


Playground is your friend



Developer Playground

Worksheet id



REST API Playground

Test search term

● ● ●

```
curl -X POST \
  --url https://try.thoughtspot.cloud/api/public/rest/v2/data/search/ \
  -H Authorization: Bearer \
  cKvYpbm6t5jWwsk7xkHd5f9w8l0sdHnBzQwFZ9HCqgTmEWEPJTVN5Vf \
  NFR0R0M0LMA3V7SgBa16Ttnha3oUZZeeAw2cHPYGS8ztp3uFFFTVOtR0wm \
  QITtVhcnNGRTNVVVVFvPhkbISLMAeV\
  -H X-Requested-By: ThoughtSpot/ \
  -H Accept-Language: application/json \
  -H Content-Type: application/json \
  --data '{"query":"*", "queryString": \
    "dateRange":{"startEpochSec": \
      "1486281600000", "endEpochSec": \
        "1486368000000"} }'
}
```

[Configure](#)

Try it Out

The screenshot displays the Postman application interface. At the top, the 'Postman' title bar is visible. The main workspace is divided into several sections:

- Top Bar:** Contains navigation links (Home, Workspaces, API Network, Reports, Explore), a search bar (Search Postman), and utility buttons (Invite, Settings, Notifications, Upgrade).
- Left Sidebar:** Shows a 'Collections' list with 'ThoughtSpot' expanded, revealing sub-collections like 'Login', 'Get Auth Token', 'Connection - List', 'Connection - Export', 'TML - Export', 'Data - Search' (selected), 'TML - Import (Validate)', 'TML - Import (Destructive)', 'Metadata - List', and 'Metadata - Details'.
- Main Workspace:**
 - Request Editor:** Shows a 'POST' request to the endpoint `(domain)/tspublic/v1/searchdata?query_string=$S8sales$SD$S8Item$SDtype$SD&data_source_guid=cd252e5c-b552-49a8-821d-3e1`. The 'Params' tab is active, displaying a table of query parameters:

KEY	VALUE	DESCRIPTION
<input checked="" type="checkbox"/> query_string	<code>\$S8sales\$SD\$S8Item\$SDtype\$SD</code>	
<input checked="" type="checkbox"/> data_source_guid	<code>cd252e5c-b552-49a8-821d-3eada048ca</code>	
Key	Value	Description
 - Body Editor:** The 'Body' tab is active, showing a JSON response in 'Pretty' format:


```

1  {
2    "columnNames": [
3      "item type",
4      "Total sales"
5    ],
6    "data": [
7      {
8        "Sweatshirts":
9          3.01607476E7
10       },
11      {
12        "Bags",
13        2.95452828E7
14      },
15      {
16        "Shorts",
17        3.6007549900000006E7
18      },
19      {
20        "Underwear",

```
 - Response Viewer:** The bottom status bar indicates a successful response: 'Status: 200 OK Time: 666 ms Size: 4.55 KB'. A 'Save Response' button is also present.

Demo: Configure project

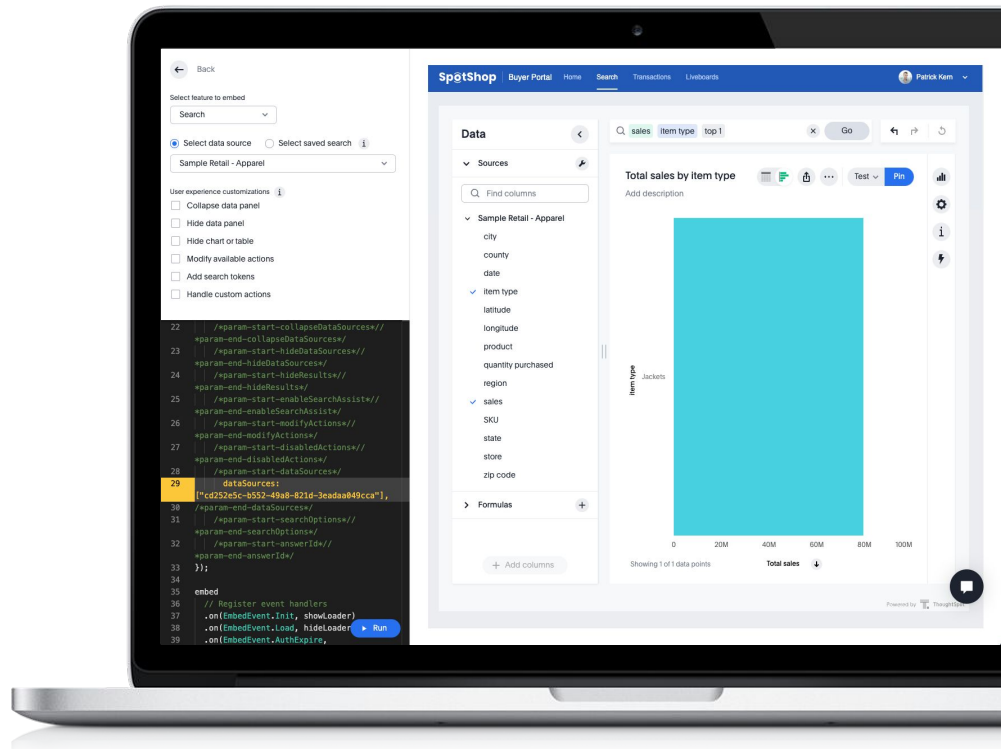


```
import { getSearchData, tsLogin } from
'./util/thoughtspot-rest-api-v1-helpers.js';
import { BarChart } from
'./util/d3-helpers.js';
import * as d3 from
"https://cdn.skypack.dev/d3@7";
```


Demo: Sales Targets



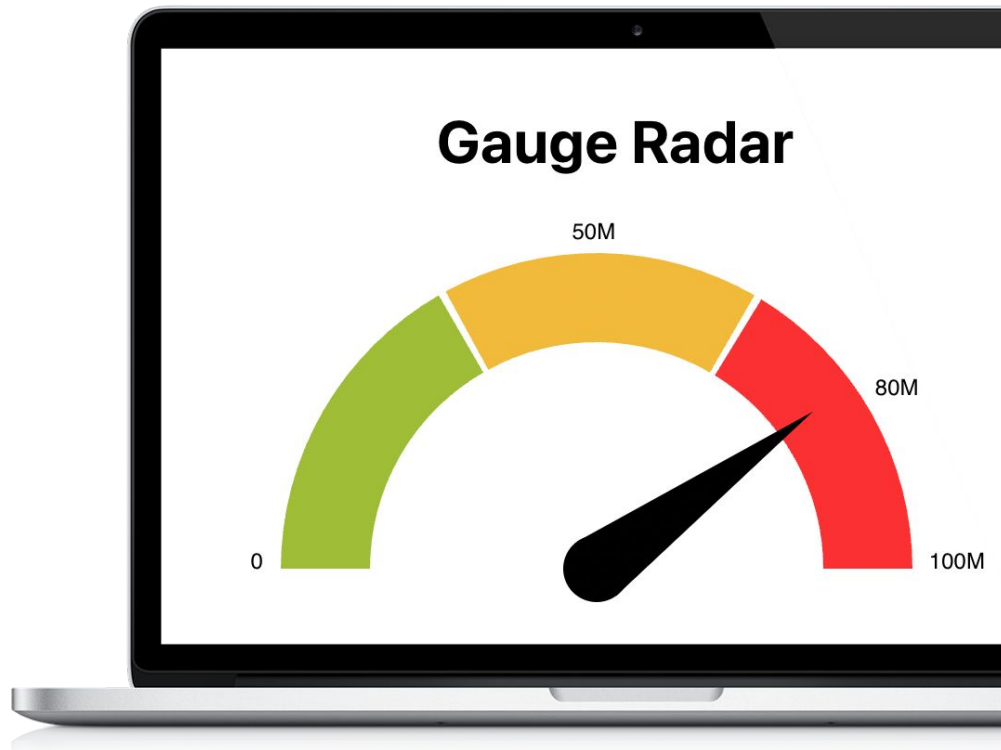
“[sales] [item type] top 1”



Demo: Gauge Chart



“[sales] [item type] top 1”



Demo: Bubble Map Chart

↓
“[sales] [state]” →



Demo: Word cloud Chart



“[sales] [state] top 25” →



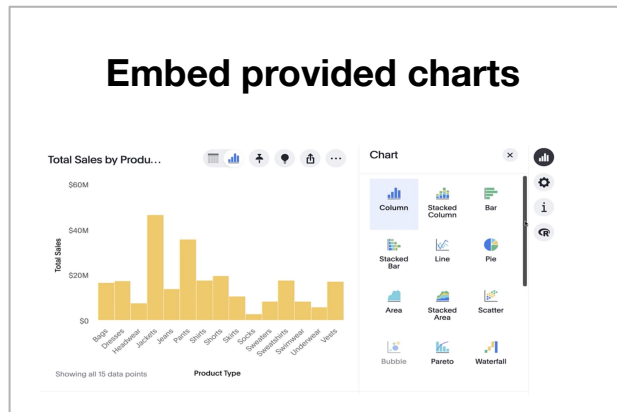
Summary



If lowcode + need full
dynacism



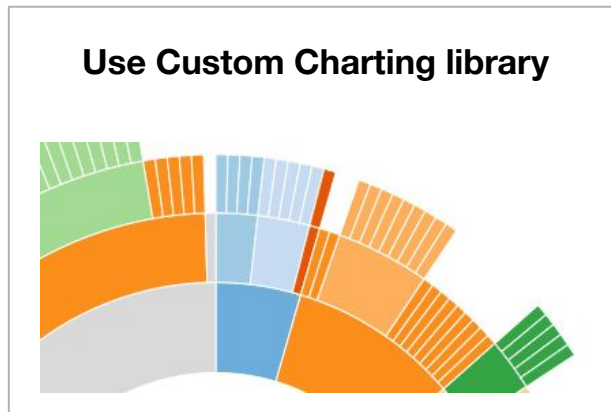
Embed provided charts



If full customization or
additional charting options



Use Custom Charting library



Get the Code from CodeSpot



developers.thoughtspot.com/codespot/d3-sample-showcase

Thank you.

