a. **blotly** | Graphing Libraries (https://plotly.com/)(/graphing-libraries/)

cutm\_campaign=studio\_cloud\_launch&utm\_content=sidebar)



Python (/python) > Scientific Charts (/python/scientific-charts) > Radar → Suggest an edit to this charts Suggest an edit to this page (https://github.com/plotly/plotly.py/edit/doc-prod/doc/python/radar-charts)

## **Radar Charts in Python**

How to make radar charts in Python with Plotly.

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Plotly Studio: Transform any dataset into an interactive data application in minutes with Al. Sign up for early access now. (https://plotly.com/studio/?utm\_medium=graphing\_libraries&utm\_campaign=studio\_early\_access&utm\_content=sidebar)

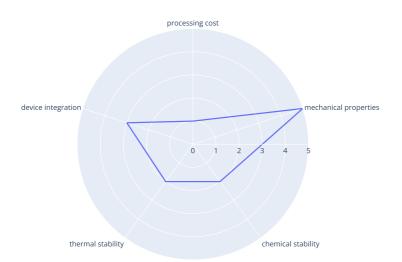
A <u>Radar Chart (https://en.wikipedia.org/wiki/Radar\_chart)</u> (also known as a spider plot or star plot) displays multivariate data in the form of a two-dimensional chart of quantitative variables represented on axes originating from the center. The relative position and angle of the axes is typically uninformative. It is equivalent to a <u>parallel coordinates plot (/python/parallel-coordinates-plot/)</u> with the axes arranged radially.

For a Radar Chart, use a <u>polar chart (/python/polar-chart/)</u> with categorical angular variables, with px.line\_polar, or with go.Scatterpolar. See <u>more examples of polar charts (/python/polar-chart/</u>).

#### Radar Chart with Plotly Express

<u>Plotly Express (/python/plotly-express/)</u> is the easy-to-use, high-level interface to Plotly, which <u>operates on a variety of types of data (/python/px-arguments/)</u> and produces <u>easy-to-style figures (/python/styling-plotly-express/)</u>.

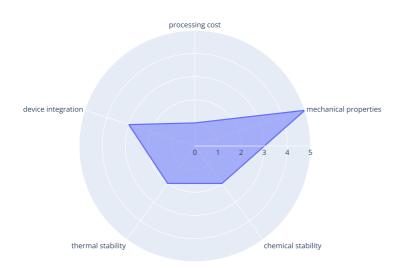
Use line\_close=True for closed lines.





Chart, update the figure created with px.line\_polar with fig.update\_traces.

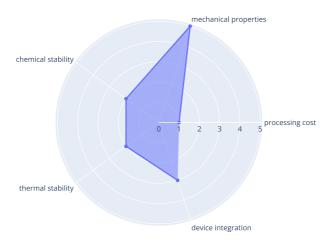
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# Basic Radar Chart with go. Scatterpolar

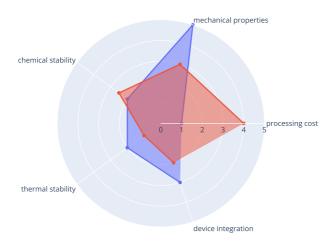


Multiple Trace Radar Chart



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```
{\tt import\ plotly.graph\_objects\ as\ go}
categories = ['processing cost', 'mechanical properties', 'chemical stability',
              'thermal stability', 'device integration']
fig = go.Figure()
fig.add_trace(go.Scatterpolar(
      r=[1, 5, 2, 2, 3],
      theta=categories,
      fill='toself',
      name='Product A'
))
fig.add_trace(go.Scatterpolar(
      r=[4, 3, 2.5, 1, 2],
      theta=categories,
     fill='toself',
     name='Product B'
))
fig.update_layout(
 polar=dict(
    radialaxis=dict(
     visible=True,
     range=[0, 5]
   )),
 showlegend=False
fig.show()
```



#### Reference

See  $\underline{\text{function reference for px.(line polar) (https://plotly.com/python-api-reference/generated/plotly.express.line polar)}$  or  $\underline{\text{https://plotly.com/python/reference/scatterpolar/}}$  for more information and chart attribute options!



## What About Dash?

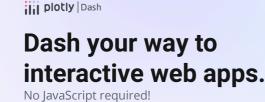
Dash (https://dash.plot.ly/) is an open-source framework for building analytical applications, with no Javascript required, and it is tightly integrated with the Plotly graphing library.

Learn about how to install Dash at https://dash.plot.ly/installation (https://dash.plot.ly/installation).

Everywhere in this page that you see fig.show(), you can display the same figure in a Dash application by passing it to the figure argument of the Graph component (https://dash.plot.ly/dash-core-components/graph) from the built-in dash\_core\_components package like this:

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```
import plotly.graph_objects as go # or plotly.express as px
fig = go.Figure() # or any Plotly Express function e.g. px.bar(...)
# fig.add_trace( ... )
# fig.update_layout( ... )
from dash import Dash, dcc, html
app = Dash()
app.layout = html.Div([
   dcc.Graph(figure=fig)
app.run(debug=True, use_reloader=False) # Turn off reloader if inside Jupyter
```





(https://dash.plotly.com/tutorial?utm\_medium=graphing\_libraries&utm\_content=python\_footer)

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