



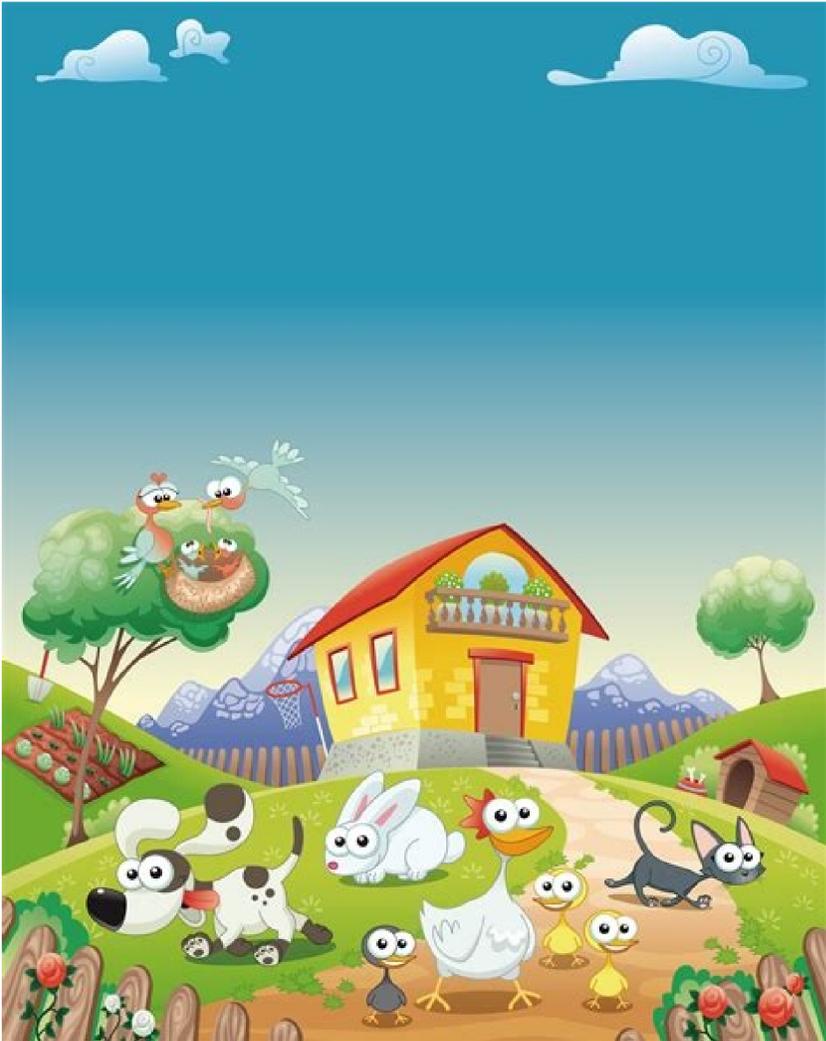
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Next

Drawing background images



Christmas background drawing images. Drawing tools background images. Engineering drawing background images. Colored pencil background drawing images. Drawing room background images. Flower drawing background images. Pencil drawing background images. Images of colorful drawing background.

A background image can be added to the layout of a figure with `fig.add_layout_image` or by setting the `images` parameter of `go.Layout`.
`fig.update_layout(...)` As an example, the following shows how to put an image in the top corner of a subplot (try panning and zooming the resulting figure):

```
import plotly.express as px
df = px.data.iris()
fig = px.scatter(df, x="sepal_length", y="sepal_width", facet_col="species")
# sources of images
sources = ["282595031014%29.jpg", "282595031014%29.jpg", "282595031014%29.jpg"]
# add images for col, src in enumerate(sources):
fig.add_layout_image(row=1, col=col + 1, source=src, xref="x domain", yref="y domain", x=1, y=1,
xanchor="right", yanchor="top", size_x=0.2, size_y=0.2)
fig.show()

```

Dash is an open-source framework for building analytical applications, with no Javascript required, and it is tightly integrated with the Plotly graphing library. Drawing or modifying a shape triggers a relayout event, which can be captured by a callback inside a Dash application. For exploring image data in interactive charts, see the tutorial on displaying image data. # This trace is added to help the autosize logic work. The style of new shapes is specified by the `newshape` layout attribute. The source attribute of a `go.layout.Image` can be the URL of an image, or a PIL Image object (from `PIL import Image; img = Image.open('filename.png')`).
`import plotly.graph_objects as go
fig = go.Figure()
Add image
img_width = 1600
img_height = 900
scale_factor = 0.5
fig.add_layout_image(x=0, size_x=img_width, y=0, size_y=img_height, xref="x", yref="y", opacity=1.0, layer="below", source="")
fig.update_xaxes(showgrid=False, range=(0, img_width))
fig.update_yaxes(showgrid=False, scaleanchor="x", range=(img_height, 0))
Line shape added programmatically
fig.add_shape(type="line", xref="x", yref="y", x0=650, x1=1080, y0=380, y1=180, line_color="cyan")
Set dragmode and newshape properties; add modebar buttons
fig.update_layout(dragmode="drawrect", newshape=dict(line_color="cyan"), title_text="Drag to add annotations - use modebar to change drawing tool")
fig.show(config={'modeBarButtonsToAdd':['drawline', 'drawopenpath', 'drawclosedpath', 'drawcircle', 'drawrect', 'eraseshape']})

Using xref='x domain' or yref='y domain', images can be placed relative to axes.
import plotly.graph_objects as go
fig = go.Figure()
Add trace
fig.add_trace(go.Scatter(x=[0, 0.5, 1, 2, 2.2], y=[1.23, 2.5, 0.42, 3, 1]))
Add images
fig.add_layout_image(dict(source="", xref="x", yref="y", x=0, y=3, size_x=2, size_y=2, sizing="stretch", opacity=0.5, layer="below"))
Set templates
fig.update_layout(template="plotly_white")
fig.show()

See more examples of adding logos to charts!
import plotly.graph_objects as go
fig = go.Figure()
fig.add_trace(go.Bar(x=["35.3", "-15.9", "-15.8", "-11.1", "-9.6", "-9.2", "-3.5", "-1.9", "-0.9", "1.0", "1.4", "1.7", "2.0", "2.8", "6.2", "8.1", "8.5", "8.5", "8.6", "11.4", "12.5", "13.3", "13.7", "14.4", "17.5", "17.7", "18.9", "25.1", "28.9", "41.4"], y=["Designers, musicians, artists, etc.", "Secretaries and administrative assistants", "Waiters and servers", "Archivists, curators, and librarians", "Sales and related", "Childcare workers, home care workers, etc.", "Food preparation occupations", "Janitors, maids, etc.", "Healthcare technicians, assistants", "fig.add_trace(go.Scatter(x=[0, img_width * scale_factor], y=[0, img_height * scale_factor], mode="markers", marker_opacity=0)))
Configure axes
fig.update_xaxes(visible=False, range=(0, img_width * scale_factor))
fig.update_yaxes(visible=False, range=(0, img_height * scale_factor))
the scaleanchor attribute ensures that the aspect ratio stays constant
fig.add_layout_image(dict(x=0, size_x=img_width * scale_factor, y=img_height * scale_factor, size_y=img_height * scale_factor, xref="x", yref="y", opacity=1.0, layer="below", sizing="stretch", source=""))
Configure other layout
fig.update_layout(width=img_width * scale_factor, height=img_height * scale_factor, margin={'l': 0, 'r': 0, 't': 0, 'b': 0})
Disable the autosize on double click because it adds unwanted margins around the image
More detail: fig.show(config={'doubleClick': 'reset'})
 It can be useful to add shapes to a layout image, for highlighting an object, drawing bounding boxes as part of a machine learning training set, or identifying seeds for a`

```
segmentation algorithm. Learn about how to install Dash at . In this page we explain how to add static, non-interactive images as background, logo or annotation images to a figure. and aides", "Counselors, social and religious workers", "Physical, life and social scientists", "Construction", "Factory assembly workers", "Machinists, repairmen, etc.", "Media and communications workers", "Teachers", "Mechanics, repairmen, etc.", "Financial analysts and advisers", "Farming, fishing and forestry workers", "Truck drivers, heavy equipment operator, etc.", "Accountants and auditors", "Human resources, management analysts, etc.", "Managers", "Lawyers and judges", "Engineers, architects and surveyors", "Nurses", "Legal support workers", "Computer programmers and system admin.", "Police officers and firefighters", "Chief executives", "Doctors, dentists and surgeons", marker=go.bar.Marker(color="rgb(253, 240, 54)", line=dict(color="rgb(0, 0, 0)", width=2), orientation="h", )) # Add image fig.add_layout_image(dict(source=" ", xref="paper", yref="paper", x=1, y=1.05, size_x=0.2, size_y=0.2, xanchor="right", yanchor="bottom" )) # update layout properties fig.update_layout(autosize=False, height=800, width=700, bargap=0.15, bargroupgap=0.1, barmode="stack", hovermode="x", margin=dict(r=20, l=300, b=75, t=125), title=("Moving Up, Moving Down" + "Percentile change in income between childhood and adulthood"), ) fig.show() import plotly.graph_objects as go import numpy as np np.random.seed(1) from scipy.signal import savgol_filter # Simulate spectroscopy data def simulated_absorption(mu, sigma, intensity): data = [np.random.normal(mu[i], sigma[i], intensity[i]) for i in range(len(mu))]
hist = [np.histogram(d, 1000, range=(200, 500), density=True) for d in data] ys = [y for y, x in hist] s = savgol_filter(np.max(ys, axis=0), 41, 3) return hist[0][1], s mus = [[290, 240, 260], [330, 350]] sigmas = [[4, 6, 10], [5, 4]] intensities = [[100000, 300000, 700000], [40000, 20000]] simulated_absorptions = [simulated_absorption(m, s, i) for m, s, i in zip(mus, sigmas, intensities)] # Create figure fig = go.Figure() # Create traces from data names = ["Benzene", "Naphthalene"] for (x, y), n in zip(simulated_absorptions, names): fig.add_trace(go.Scatter(x=x, y=y, name=n)) # Add images fig.add_layout_image(dict(source=" ", x=0.75, y=0.65, )) fig.add_layout_image(dict(source=" ", x=0.9, y=0.3, )) fig.update_layout_images(dict(xref="paper", yref="paper", size_x=0.3, size_y=0.3, xanchor="right", yanchor="bottom" )) # Add annotations fig.update_layout(annotations=[dict(x=93.0 / 300, y=0.07 / 0.1, xref="paper", yref="paper", showarrow=True, arrowhead=0, opacity=0.5, ax=250, ay=-40, ), dict(x=156.0 / 300, y=0.04 / 0.1, xref="paper", yref="paper", showarrow=True, arrowhead=0, opacity=0.5, ax=140, ay=-10, )]) # Configure axes fig.update_xaxes(title_text="Wavelength") fig.update_yaxes(title_text="Absorption", hoverformat="3f") # Configure other layout properties fig.update_layout(title_text="Absorption Frequencies of Benzene and Naphthalene", height=500, width=900, template="plotly_white" ) fig.show() import plotly.graph_objects as go # Create figure fig = go.Figure() # Constants img_width = 1600 img_height = 900 scale_factor = 0.5 # Add invisible scatter trace. In order to enable shape drawing, you need to define a dragnode corresponding to a drawing tool ('drawline', 'drawopenpath', 'drawclosedpath', 'drawcircle', or 'drawrect') add modebar buttons corresponding to the drawing tools you wish to use. 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 from the built-in dash_core_components package like this: 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( ... Shapes can be selected and modified after they have been drawn. ) import dash import dash_core_components as dcc import dash_html_components as html app = dash.Dash() app.layout = html.Div( dcc.Graph(figure=fig) )
app.run_server(debug=True, use_reloader=False) # Turn off reloader if inside Jupyter More details and examples are given in the tutorial on shapes.
```

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