

Basic Plot Creation		
Commands	Description	Example
<code>sns.lineplot()</code>	Draws a line plot (good for time-series, regression). Handles multiple groups automatically.	<code>sns.lineplot(x="time", y="value", hue="category", data=df)</code>
<code>sns.scatterplot()</code>	Scatter plot. Supports size, hue, style and alpha.	<code>sns.scatterplot(x="x", y="y", size="size_col", hue="group", data=df)</code>
<code>sns.relplot()</code>	Relational plot that creates a figure with multiple axes (grid). kind='scatter' or 'line'.	<code>sns.relplot(x="x", y="y", hue="group", kind="scatter", data=df)</code>
<code>sns.histplot()</code>	Histogram (1-D) or KDE. Supports bins, multiple datasets, rug plots.	<code>sns.histplot(data=df["col"], kde=True, bins=30)</code>
<code>sns.kdeplot()</code>	Kernel density estimate plot (1-D or 2-D).	<code>sns.kdeplot(x="x", y="y", data=df, fill=True)</code>
<code>sns.ecdfplot()</code>	Empirical CDF plot.	<code>sns.ecdfplot(data=df["col"])</code>
<code>sns.boxplot()</code>	Box-and-whisker plot. Handles multiple groups, whiskers can be set to 1.5*IQR or percentiles.	<code>sns.boxplot(x="group", y="value", data=df)</code>
<code>sns.violinplot()</code>	Violin plot (kernel density + box).	<code>sns.violinplot(x="group", y="value", data=df)</code>
<code>sns.stripplot()</code>	Jittered scatter plot (useful for categorical data).	<code>sns.stripplot(x="group", y="value", jitter=True, data=df)</code>
<code>sns.swarmplot()</code>	Non-overlapping scatter plot for categorical data.	<code>sns.swarmplot(x="group", y="value", data=df)</code>
<code>sns.countplot()</code>	Bar plot of counts for categorical variables.	<code>sns.countplot(x="category", data=df)</code>
<code>sns.barplot()</code>	Estimate of mean (or other estimator) with CI bars.	<code>sns.barplot(x="group", y="value", data=df, ci=95)</code>
<code>sns.pointplot()</code>	Similar to barplot but with a point and error bars.	<code>sns.pointplot(x="group", y="value", data=df)</code>
<code>sns.heatmap()</code>	2-D heat map of a matrix or DataFrame.	<code>sns.heatmap(df.corr(), annot=True, cmap="coolwarm")</code>
<code>sns.pairplot()</code>	Grid of pairwise relationships with scatter / histogram / KDE on the diagonal.	<code>sns.pairplot(df, hue="class")</code>
<code>sns.lmplot()</code>	Linear model fit with optional seaborn regression diagnostics.	<code>sns.lmplot(x="x", y="y", hue="group", data=df)</code>
<code>sns.jointplot()</code>	Joint distribution plot with marginal histograms / KDE.	<code>sns.jointplot(x="x", y="y", kind="hex")</code>
<code>sns.distplot()</code> (deprecated)	1-D histogram + KDE. Use <code>histplot</code> and/or <code>kdeplot</code> .	-
<code>sns.rugplot()</code>	Small tick marks along an axis to show data density.	<code>sns.rugplot(data=df["col"], height=0.05)</code>
<code>sns.ecdfplot()</code>	Empirical cumulative distribution function plot.	-

Multi-Plot - Facet Functions

Command	Description	Example
<code>sns.relplot()</code>	Relational grid of plots (scatter / line). Handles col, row, hue.	<code>sns.relplot(x="x", y="y", col="group", hue="species", data=df)</code>
<code>sns.catplot()</code>	General categorical grid (bar, box, violin, swarm, strip).	<code>sns.catplot(x="group", y="value", col="category", kind="box", data=df)</code>
<code>sns.pairplot()</code>	Grid of pairwise relationships.	-
<code>sns.FacetGrid()</code>	Lower-level API to build custom grids; can map any function.	<code>g = sns.FacetGrid(df, col="group"); g.map(sns.scatterplot, "x", "y")</code>

Statistical Functions

Command	Description	Example
<code>sns.regplot()</code>	Fit a linear regression line with optional lowess smoothing.	<code>sns.regplot(x="x", y="y", data=df)</code>
<code>sns.rugplot()</code>	Small tick marks along an axis.	-
<code>sns.residplot()</code>	Plot residuals of a regression fit.	<code>sns.residplot(x="x", y="y", data=df)</code>
<code>sns.lmplot()</code>	Wrapper around <code>regplot</code> for faceted plots.	-
<code>sns.rugplot()</code>	-	-

Heat Maps - Matrix Plots

Command	Description	Example
<code>sns.heatmap()</code>	Heat map of a matrix or DataFrame, supports annotations and clustering.	<code>sns.clustermap(df.corr(), cmap="coolwarm")</code>
<code>sns.clustermap()</code>	Hierarchical clustering + heatmap.	-

Styling - Themes

Command	Description	Example
<code>sns.set()</code>	Set default context, style, palette, font scale.	<code>sns.set(context="talk", style="whitegrid", palette="deep")</code>
<code>sns.set_style()</code>	Change the aesthetics of the plot (e.g., "white", "darkgrid").	<code>sns.set_style("ticks")</code>
<code>sns.set_context()</code>	Adjust context (paper, notebook, talk, poster).	<code>sns.set_context("poster")</code>
<code>sns.set_palette()</code>	Set the color palette (list, seaborn name).	<code>sns.set_palette("Set2")</code>
<code>sns.color_palette()</code>	Return a palette object.	<code>palette = sns.color_palette("viridis", n_colors=5)</code>
<code>sns.cubehelix_palette()</code>	Generate a cube-helix palette.	-
<code>sns.light_palette()</code> / <code>dark_palette()</code>	Generate light/dark palettes from a base color.	-
<code>sns.despine()</code>	Remove the top and right spines of a plot.	<code>sns.despine(offset=10, trim=True)</code>
<code>sns.move_legend()</code>	Move the legend to a specified location.	-