Tutorial for EasyPubPlot

Heatmap

Step 1: Prepare the Input Data

1. Prepare the input data file with columns of sample names and rows of feature names.

	Α	В	С	D	Е	F	G	Н	1	J	K	L
1		Sample1	Sample2	Sample3	Sample4	Sample5	Sample6	Sample7	Sample8	Sample9	Sample10	
2	Feature1	6.414781	7.348653	5.44988	5.404979	6.229203	4.412215	4.232352	3.320935	4.683136	4.225894	
3	Feature2	6.435047	6.156031	6.861439	6.587949	6.752088	8.340621	8.105698	8.201584	8.015319	8.004735	
4	Feature3	9.014991	8.361876	8.260597	8.832954	7.989574	5.506586	4.989704	5.051869	5.684248	5.117263	
5	Feature4	7.6506	8.625123	9.412192	9.233871	9.143033	11.60331	11.15601	11.77254	11.3553	11.41116	
6	Feature5	2.513956	2.505914	2.252432	2.398476	2.813189	5.110482	4.866051	6.461958	4.739429	6.170013	
7	Feature6	5.490659	5.055548	6.048919	5.639597	5.798297	8.994013	8.625811	8.96273	7.868652	8.649753	
8	Feature7	6.753374	6.706764	6.719683	6.361063	6.396258	8.684102	8.154864	8.695373	7.321512	8.543458	
9	Feature8	8.190091	8.04319	8.820218	8.787505	7.801053	7.28055	7.29583	6.097464	6.666148	6.47614	
10	Feature9	7.022594	7.709266	7.294025	7.225978	7.288992	12.59513	12.4502	12.50665	11.61863	12.15144	
11	Feature10	6.72579	6.750843	7.147774	6.81859	7.102108	9.915999	9.809449	10.07367	9.806063	9.952044	
12	Feature11	10.81282	10.88239	10.79092	10.14175	9.901224	6.884237	9.000895	8.040718	7.711069	9.513409	
13	Feature12	4.011857	5.332292	6.324431	6.329219	5.94302	7.547227	6.734616	8.066804	6.802657	7.328118	
14	Feature13	8.210749	7.879756	8.638244	7.790391	9.086885	9.651523	10.13135	9.302558	10.19425	10.25901	
15	Feature14	7.459436	6.714707	5.342237	6.255591	5.479183	8.591265	7.100877	9.333213	7.106466	8.012432	
16	Feature15	3.138966	2.985229	3.970998	3.350697	4.020235	8.235132	7.694905	7.740914	7.969374	7.927195	

Step 1: Prepare the Input Data

2. Prepare the metadata file with identical column names ("Sample" and "GroupLevel1").

	А	В	С
1	Sample	GroupLevel1	
2	Sample1	Group1	
3	Sample2	Group1	
4	Sample3	Group1	
5	Sample4	Group1	
6	Sample5	Group1	
7	Sample6	Group2	
8	Sample7	Group2	
9	Sample8	Group2	
10	Sample9	Group2	
11	Sample10	Group2	
12			

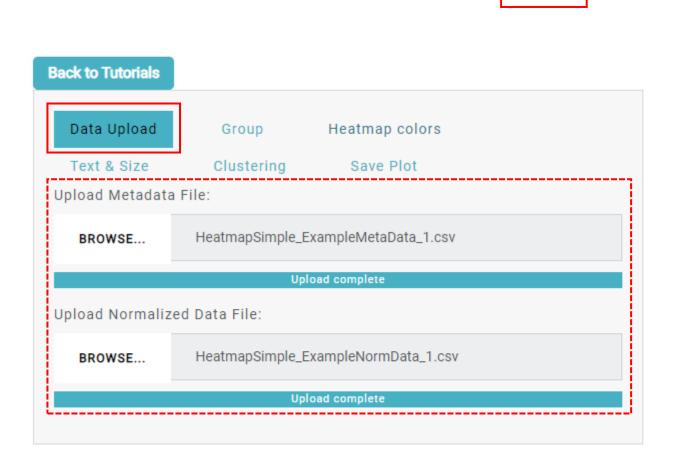
Step 2: Upload the Data

1. Select tab "Heatmap".

EASYPUBPLOT

- Select subtab "Data Upload".
- 3. Upload the metadata file and normalized data file.

INTRODUCTION



VOLCANO PLOT

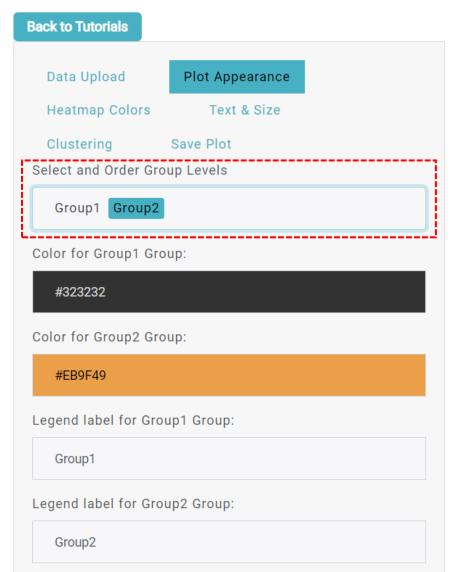
HEATMAP

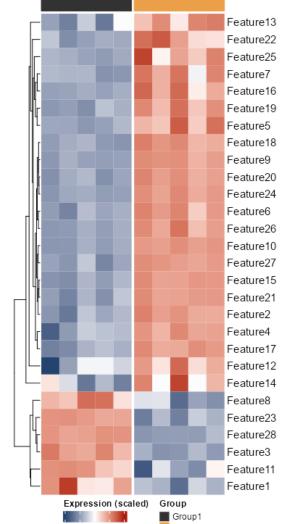
SCORES PLOT

BOX PLOT

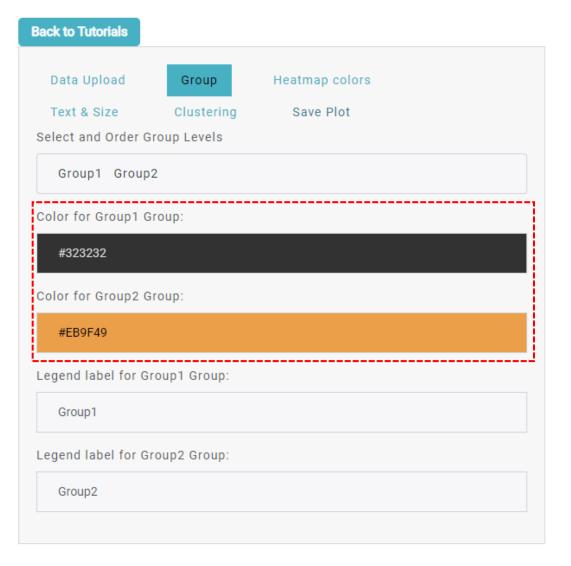
TUTORIALS

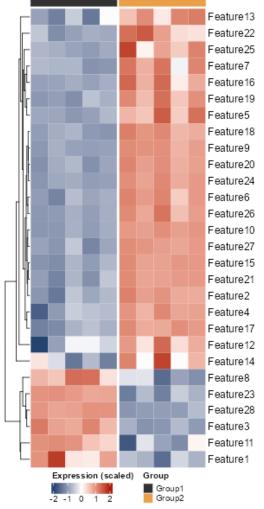
- 1. Select subtab "Group".
 - > Select options "Select and Order Group Level" to select/delete groups or modify the group order.



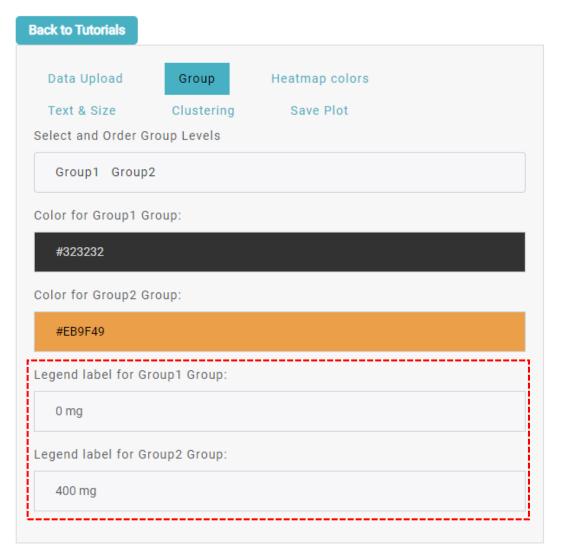


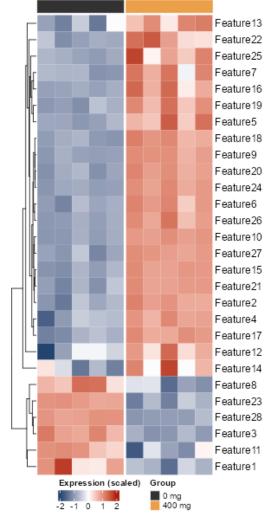
- 1. Select subtab "Group".
 - > Select options "Color for Group" to modify the approriate color for each group.





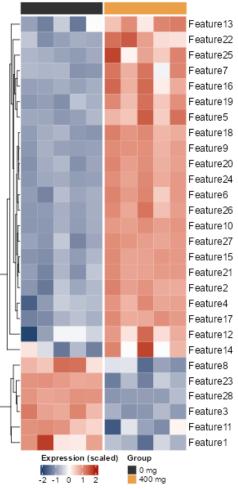
- 1. Select subtab "Group".
 - ➤ Modify the legend label for each group.



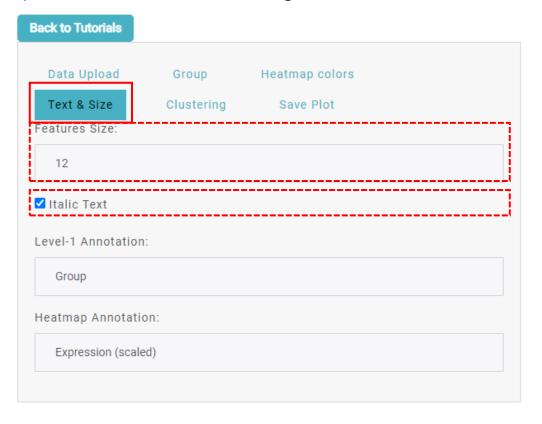


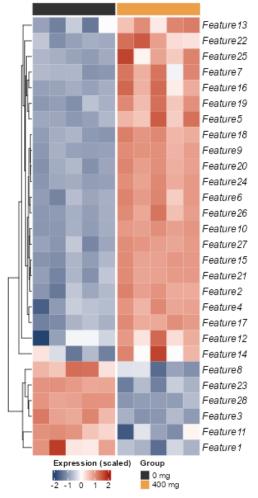
- 2. Select subtab "Heatmap colors".
 - > Select the approriate colors for down-regulation, unchange and up-regulation.
 - > Select option "Color Scale" to modify the color scale.





- 3. Select subtab "Text & Size".
 - > Select option "Features Size" to modify the size of feature names.
 - > Select option "Italic Text" to change the format of feature name to italic.



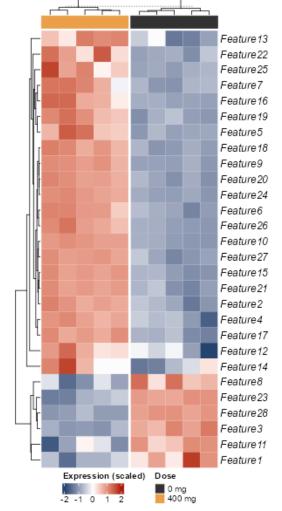


- 3. Select subtab "Text & Size".
 - ➤ Select options "Level-1 Annotation" and "Heatmap Annotation" to modify the corresponding label legends.



- 4. Select subtab "Clustering".
 - > Select the options "Cluster Row" and/or "Cluster Column" to cluster the heatmap by row and/or column.

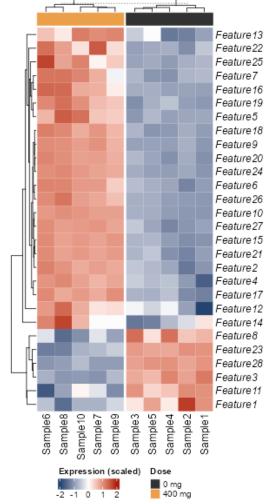




Note: The cluster of rows is displayed, and the cluster of columns is not displayed as the default settings.

- 4. Select subtab "Clustering".
 - > Select the options "Show Column Name" to display the sample name.



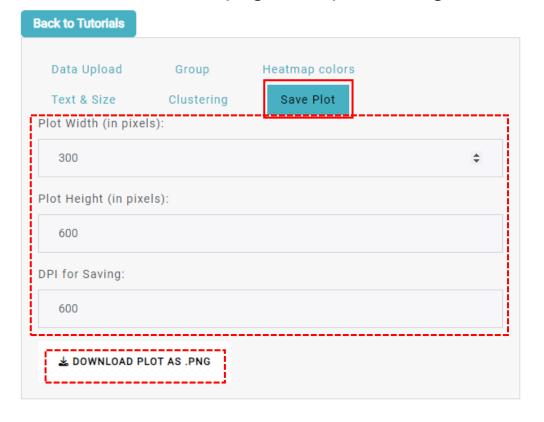


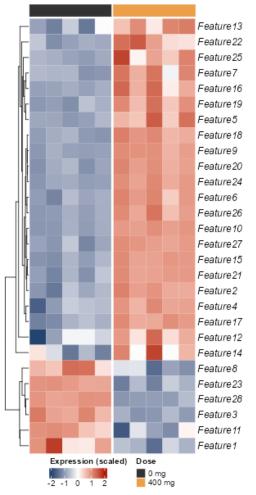
Note: The column names (sample names) are not displayed as a default setting.

Step 4: Export the Heatmap

Select subtab "Save Plot"

- > Select the approriate sizes (Plot Width and Plot Height) and resolution for the exported figure.
- > Select option "Download Plot as .png" to export the figure.





Note: Figure should be exported at 300 dpi or higher.