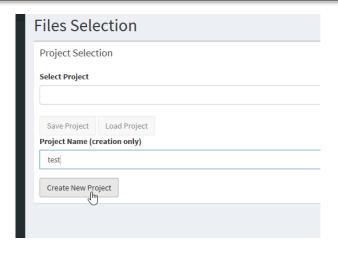


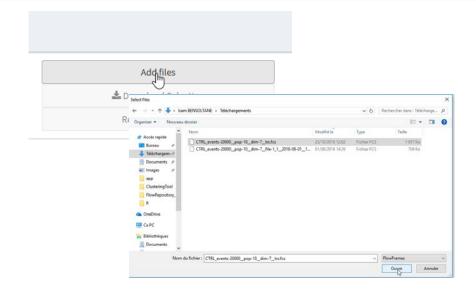
Files stored in projects:

- Local folders containing modified versions of the selected files
- Creating a project: Create an empty local folder
- Load a project: Load the files and the information of a project formerly created

SAVE THE PROJECT AFTER ADDING ALL THE FILES







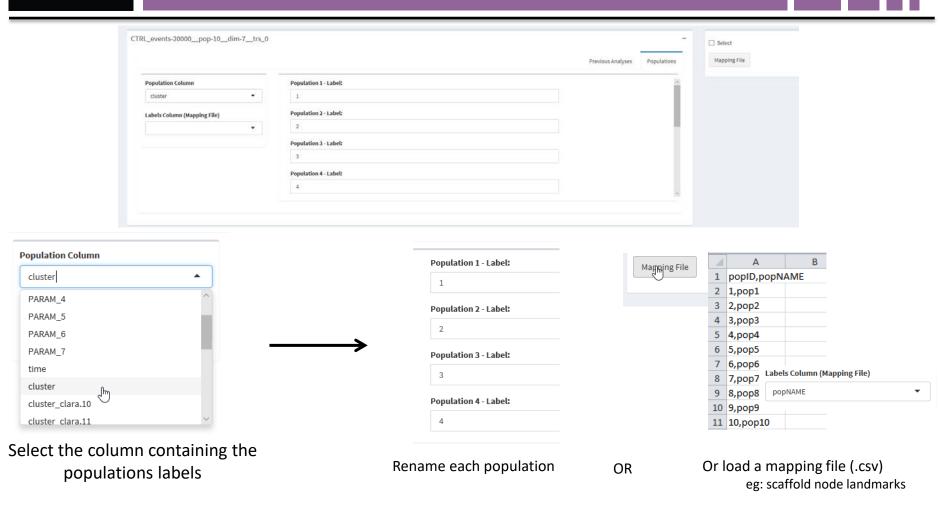
Creates a new project named test

Add local files to the project:

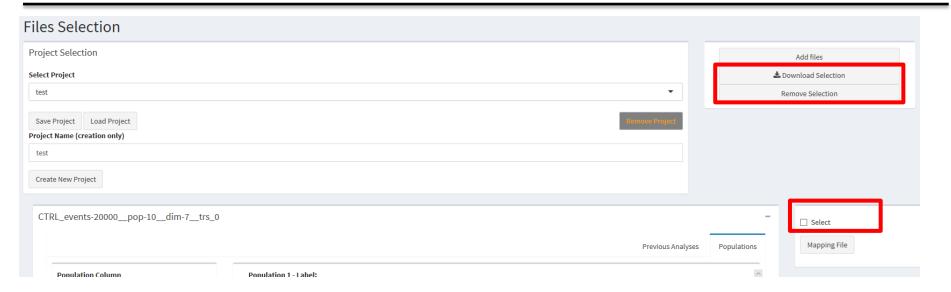
- ENRICHED FCS FILE
- REQUIRED KEYWORDS

Use Clustering Tool or Keywords Registor





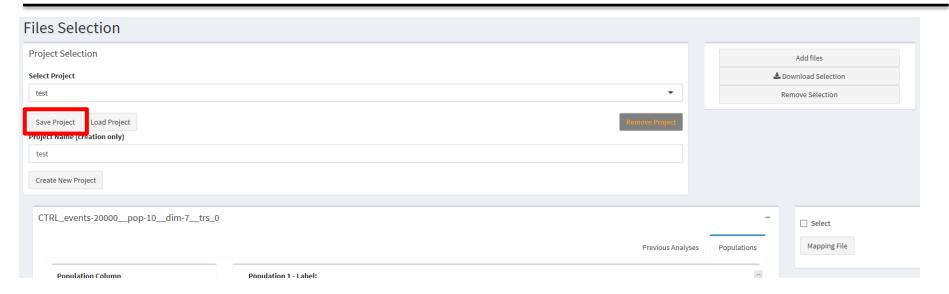




Selected Files:

- Download the selected files stored in each project
- Remove all the selected files and their information from the project

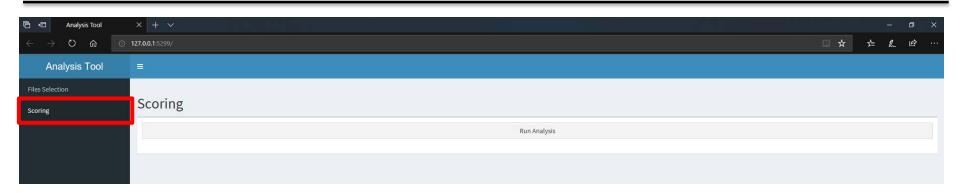




Save Project:

Save all the files and their information in the folder associated with the project



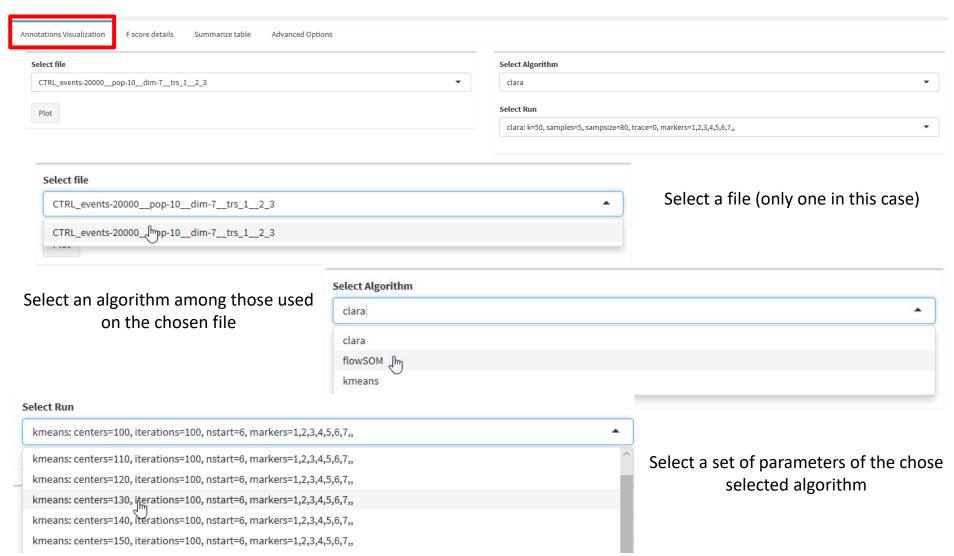


Run Analysis Button:

Compute the purity, precision, recall, FG matrices and clusters information for each registered set of parameters, for each algorithm



<u>Visualization Panel</u>: Annotations Visualization

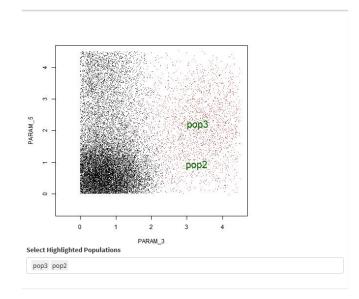




Visualization Panel: Annotations Visualization



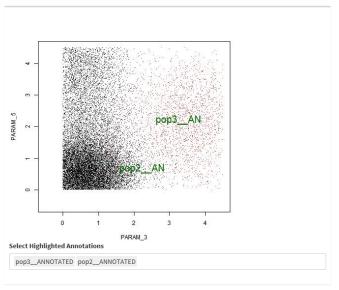
Select the markers to visualize



Selected Populations : Markers expression



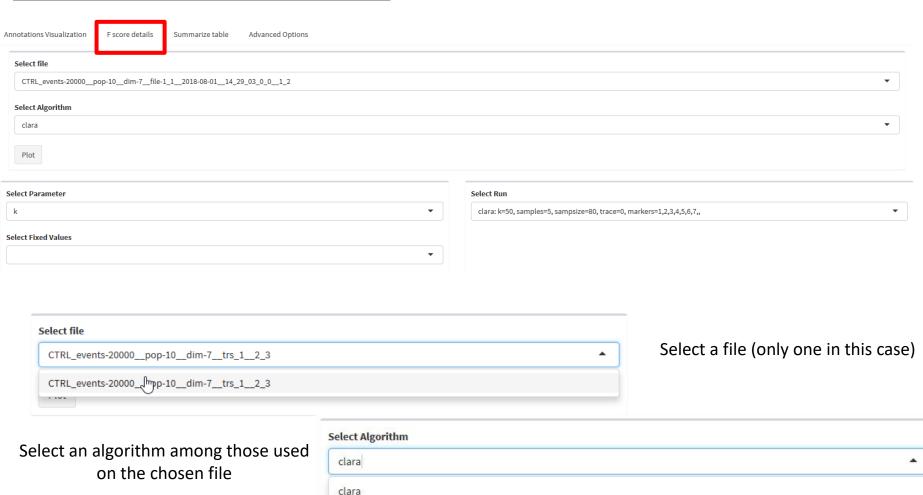
Plot



Selected Annotations : Markers expression



Visualization Panel: F-score variations



flowSOM h



Visualization Panel: F-score variations





Select Fixed Values

samples=5, sampsize=30, trace=0, MARKERS=1234567, samples=5, sampsize=80, trace=0, MARKERS=1234567,

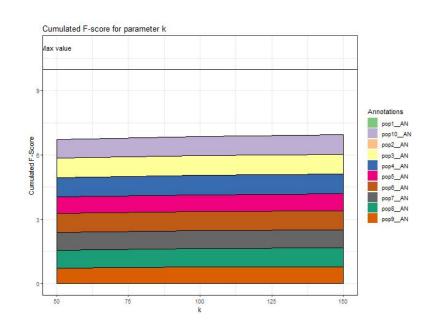
Select the variable parameter

Plot

Select the values of the other parameters

Evolution of the F-score of all populations:

- Depending on the values of the variable parameter
- Each population is identified by a color
- The maximum value of the cumulated F-score is the number of populations





Visualization Panel: F-score variations

Select Run

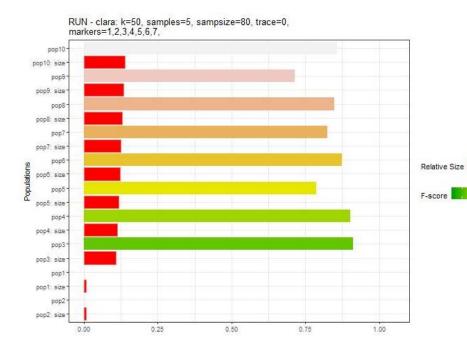
clara: k=50, samples=5, sampsize=80, trace=0, markers=1,2,3,4,5,6,7,, clara: k=50, samples=5, sampsize=80, trace=0, markers=1,2,3,4,5,6,7,

clara: k=100, samples=5, sampsize=80, trace=0, markers=1,2,3,4,5,6,7,, clara: k=150, samples=5, sampsize=80, trace=0, markers=1,2,3,4,5,6,7,,

Select a set of parameters



Plot

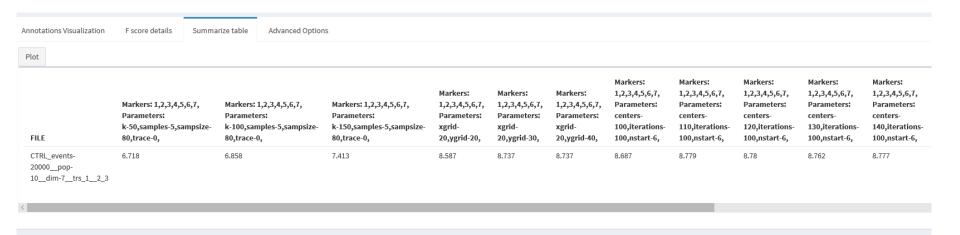


F-Score of each population for the selected set of parameters

The relative size gives the ratio $\frac{\text{size of population}}{\text{number of events in the file}}$



<u>Visualization Panel : Summary table</u>

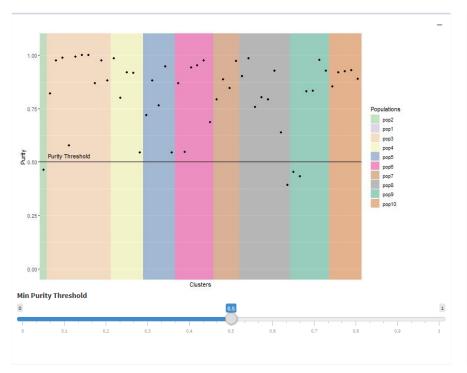


Summary Table:

Sum of the F-Score of all populations for every file, every algorithm with every set of parameters



Visualization Panel: Advanced Options



BELOW THRESHOLD	precision	Relative Size (population)	Relative Size (file)	Population
Cluster 1	0.4528	51.925 %	6.945 %	pop9
Cluster 7	0.4327	10.28 %	1.375 %	pop9
Cluster 43	0.4631	79.831 %	0.475 %	pop2
Cluster 46	0.3928	4.32 %	0.56 %	pop8
ABOVE THRESHOLD	precision	Relative Size (population)	Relative Size (file)	Population
ABOVE THRESHOLD Cluster 22	precision 0.82	Relative Size (population) 22.42 %	Relative Size (file) 2.445 %	Population pop3
	-			-
Cluster 22	0.82	22.42 %	2.445 %	pop3
Cluster 22 Cluster 28	0.82	22.42 % 15.038 %	2.445 % 1.64 %	pop3
Cluster 22 Cluster 28 Cluster 36	0.82 0.9756 0.9877	22.42 % 15.038 % 14.947 %	2.445 % 1.64 % 1.629 %	pop3 pop3 pop3
Cluster 22 Cluster 28 Cluster 36 Cluster 37	0.82 0.9756 0.9877 0.5771	22.42 % 15.038 % 14.947 % 6.831 %	2.445 % 1.64 % 1.629 % 0.745 %	pop3 pop3 pop3 pop3
Cluster 22 Cluster 28 Cluster 36 Cluster 37 Cluster 38	0.82 0.9756 0.9877 0.5771	22.42 % 15.038 % 14.947 % 6.831 % 6.556 %	2.445 % 1.64 % 1.629 % 0.745 % 0.715 %	pop3 pop3 pop3 pop3 pop3
Cluster 22 Cluster 28 Cluster 36 Cluster 37 Cluster 38 Cluster 39	0.82 0.9756 0.9877 0.5771 0.993	22.42 % 15.038 % 14.947 % 6.831 % 6.556 % 5.731 %	2.445 % 1.64 % 1.629 % 0.745 % 0.715 % 0.625 %	pop3 pop3 pop3 pop3 pop3 pop3
Cluster 22 Cluster 28 Cluster 36 Cluster 37 Cluster 38 Cluster 39	0.82 0.9756 0.9877 0.5771 0.993	22.42 % 15.038 % 14.947 % 6.831 % 6.556 % 5.731 % 26.501 %	2.445 % 1.64 % 1.629 % 0.745 % 0.715 % 0.625 % 2.89 %	pop3 pop3 pop3 pop3 pop3 pop3 pop3

- Purity of each cluster relative to their population.
- The clusters are grouped into populations
- The purity threshold sorts clusters in the two tables on the left