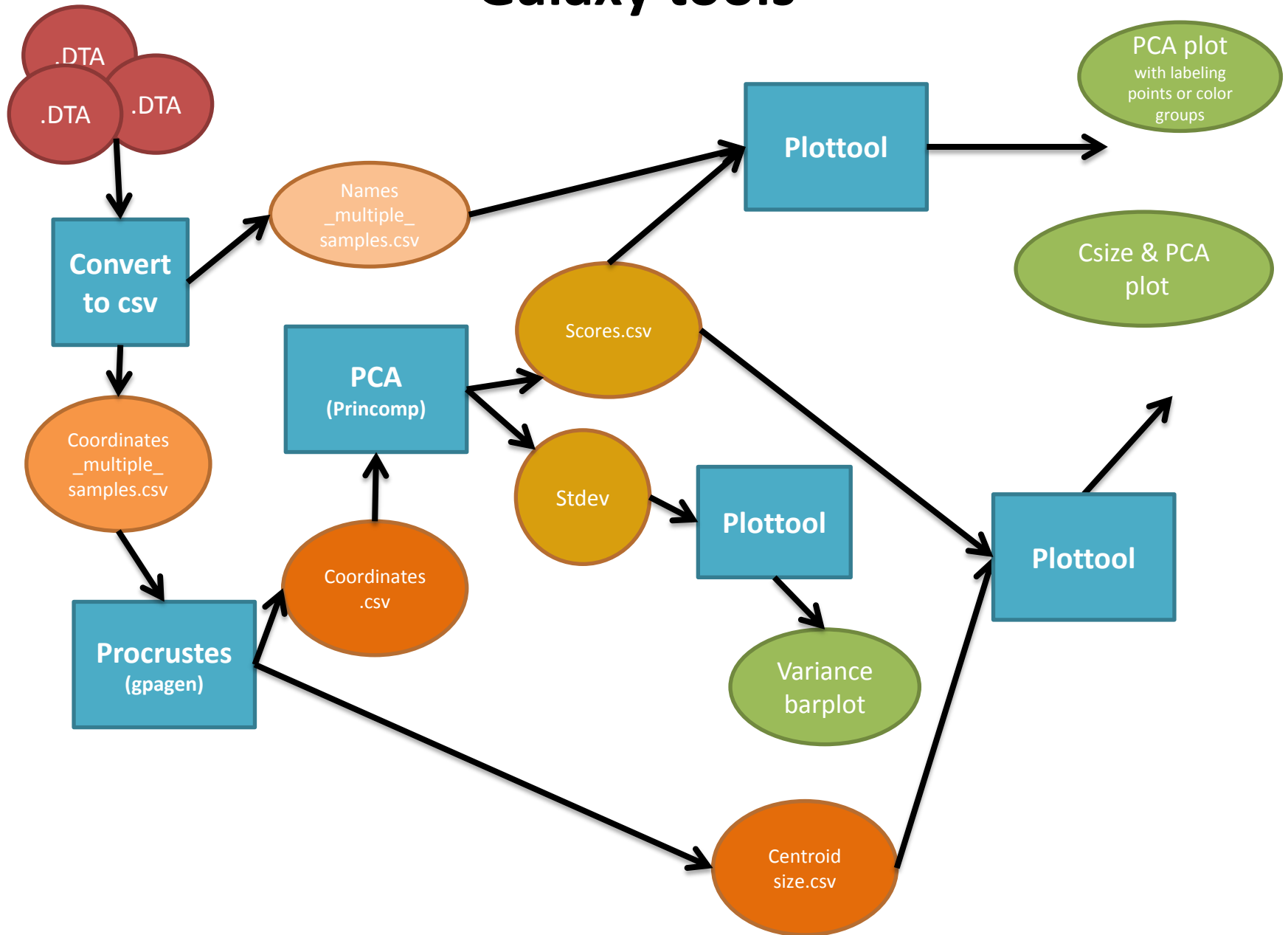


Galaxy tools



DTA converter to convert multiple dta files to a csv file

1

Dtaconverter3 (version 1.0.0)

Inputs:

Execute

What it does

This tool can convert multiple .dta files to one .csv file with coordinates and one .csv file with names of the samples.

Input file

.dta file created by:

Created by Landmark. <http://graphics.idav.ucdavis.edu/research/EvoMorph>

DTA tool view

2

Dtaconverter3 (version 1.0.0)

Inputs:

× 6: S2-H9 just curved lower pitcher.dta

7: S2-H14 curved lower.dta

8: S3-H7 elongation phase lower pitcher.dta

9: S3-H11 late elongation phase lower pitcher.dta

10: S4-H10 inflation phase lower pitcher.dta

11: S5-H8 mature lower pitcher.dta

12: S5-H12 Mature lower 2.dta

13: S5-H15 Upper pitcher.dta

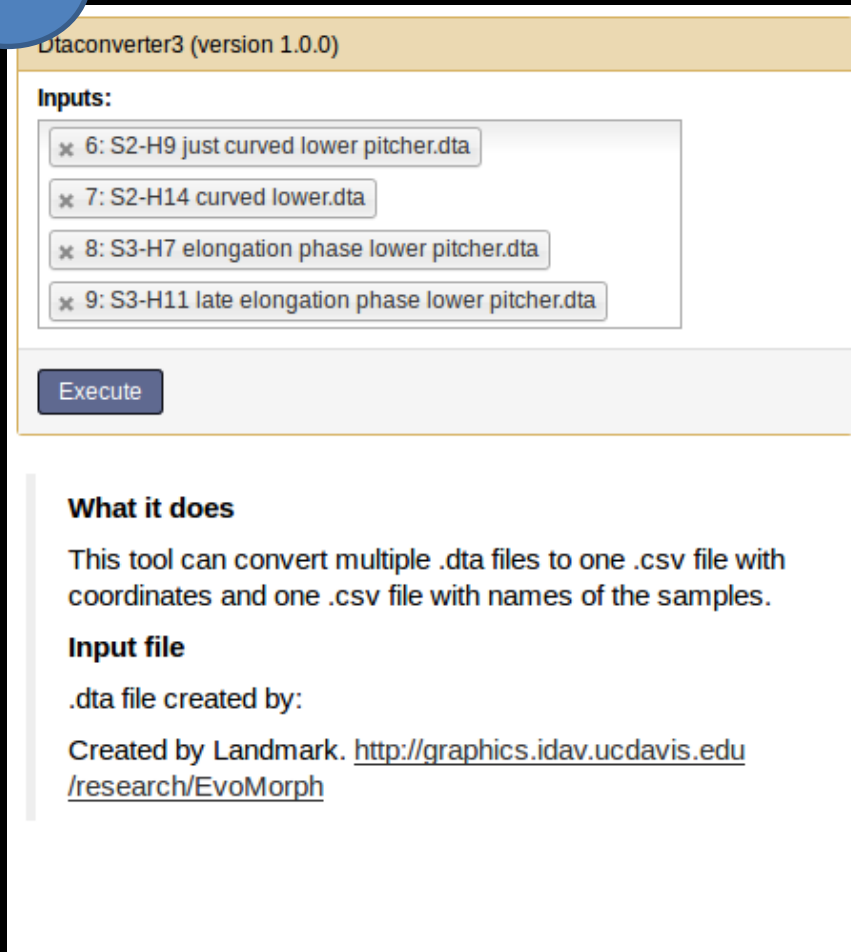
16: M1 mature upper.dta

Created by Landmark. <http://graphics.idav.ucdavis.edu/research/EvoMorph>

Choose dta files, you can click on the files you want. The dropdown menu won't close, so you can easily and quick choose files.

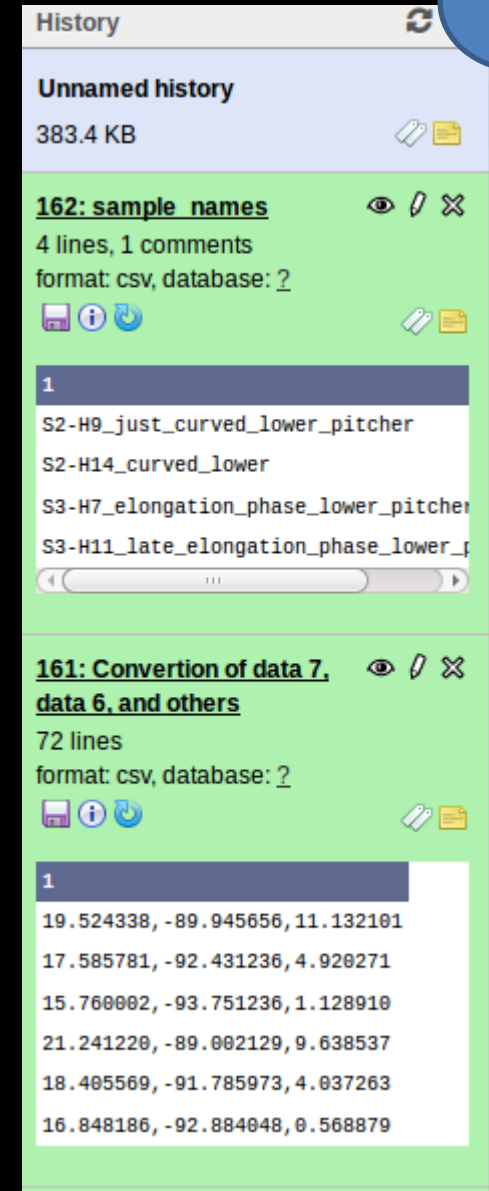
DTA converter to convert multiple dta files to a csv file

3



The files are selected, the Execute button can be pressed

4



The history with the output files of the tool

Procrustes

Procrustes version 1.0.0

Mergedcsv file:

161: Conversion of data 7, data 6, and others

number of landmarks:

18

number of dimensions:

3

Execute

What it does

Procrustes analysis with merged csv file and output procrustes coordinates in csv format

Input file

.csv file with landmark coordinates

Tip

Use **dtaConverter** to convert .dta to .csv

Tool view Procrustes
Selected merged file of DTA converter

Unnamed history
392.3 KB

185: centroid size
procrustes
5 lines
format: csv, database: ?

1

"x"

26.8729010119268
28.8118652010217
53.0508639963106
72.3875978912817

184: pca coordinates
procrustes
55 lines
format: csv, database: ?

1

"V1", "V2", "V3", "V4"

0.0886510841772643, 0.081343926434664
0.0653329925756454, 0.079352109489414
0.274181718763141, 0.280766639741705,
0.0162407750117153, 0.008497293750035
-0.0276031441895381, -0.0463333031894

The history with the output
files of the tool

Procrustes

PCA version 1.0.0

Procrustes csvfile:

184: pca coordinates procrustes

Execute

What it does

Principle component analysis on procrustes coordinate of landmark data

Input file

.csv file Procrustes coordinates

Output

Principle components

Standard deviation

Tip

Use **Procrustes** to produce the procrustes coordinates

Tool view PCA
Selected procrustes csv file

187: standard deviation

5 lines

format: csv, database: ?

1

"x"

0.000177582234206065

8.28559632152186e-05

3.62310981903584e-05

0

186: principle components

5 lines

format: csv, database: ?

1

"Comp.1", "Comp.2", "Comp.3", "Comp.4"

-0.000178694111354516, 0.000114470006

-0.000128812320850134, -0.00011586461

3.05917422899449e-05, -2.08837069870e

0.000276914689914707, 2.2278320380976

The history with the output
files of the tool

Plottool for PCA

Plottool version 1.0.0

PCA coordinates:
186: principle components

Main Title:
PCA

x axis label:
pca1

y axis label:
pca2

pca x axis:
1

pca y axis:
2

data names:
160: sample_names

Execute

1

Tool view Plotttool PCA
Selected principle components,
sample names

What it does

Plottool for plotting of principle components

Input file

principle components coordinates (csv format)

sample names (csv format)

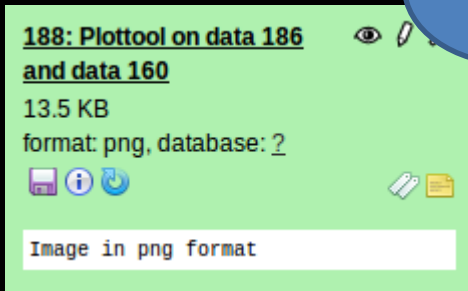
Tip

Use **PCA** to generate principle components

Use the sample names of **dtaConverter** or create your own 'sample name file' in .csv format

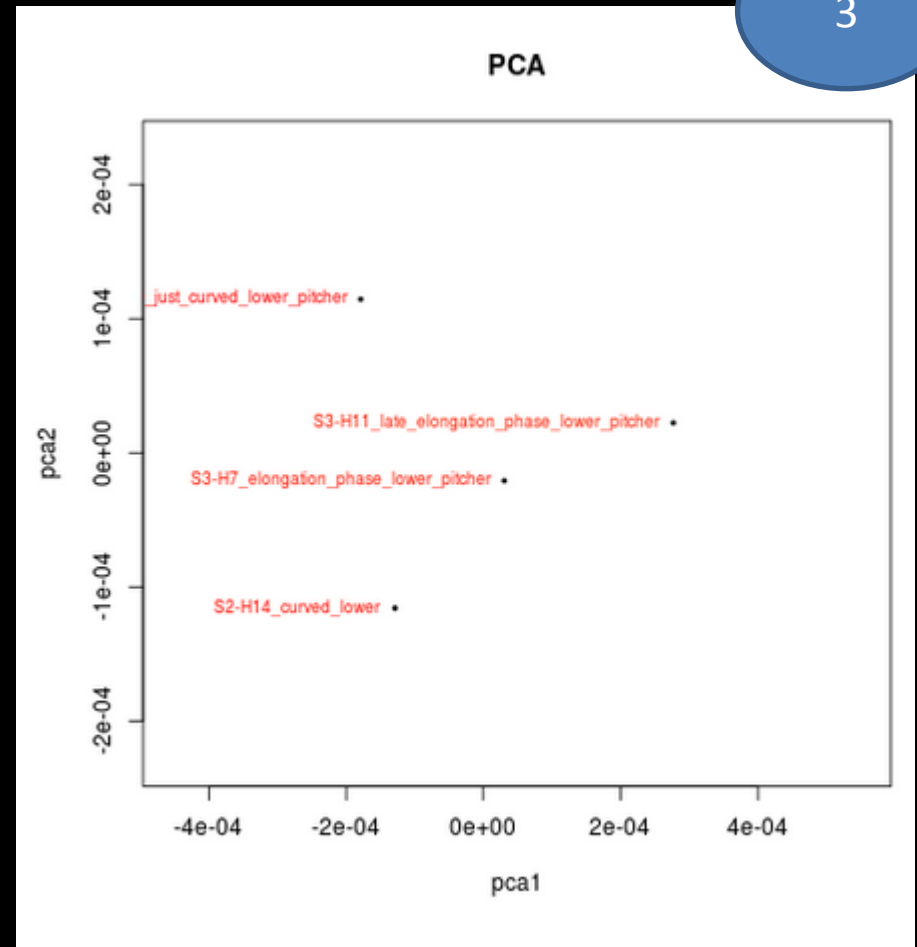
Plottool for PCA

2



The history with the output files of the tool

3



The plot generated with the tool

Barplot tool for Variance

1

barplot version 1.0.0

standard deviation pca:

187: standard deviation

Main Title:

Variance

Execute

What it does

Plottool for creating a barplot of variance of PCA

Input file

standard deviation (PCA)

Tip

Use **PCA** to generate standard deviation .csv file

Tool view Plotttool Variance
Selected standard deviation

Barplot for Variance

189: barplot on data 187

3.7 KB

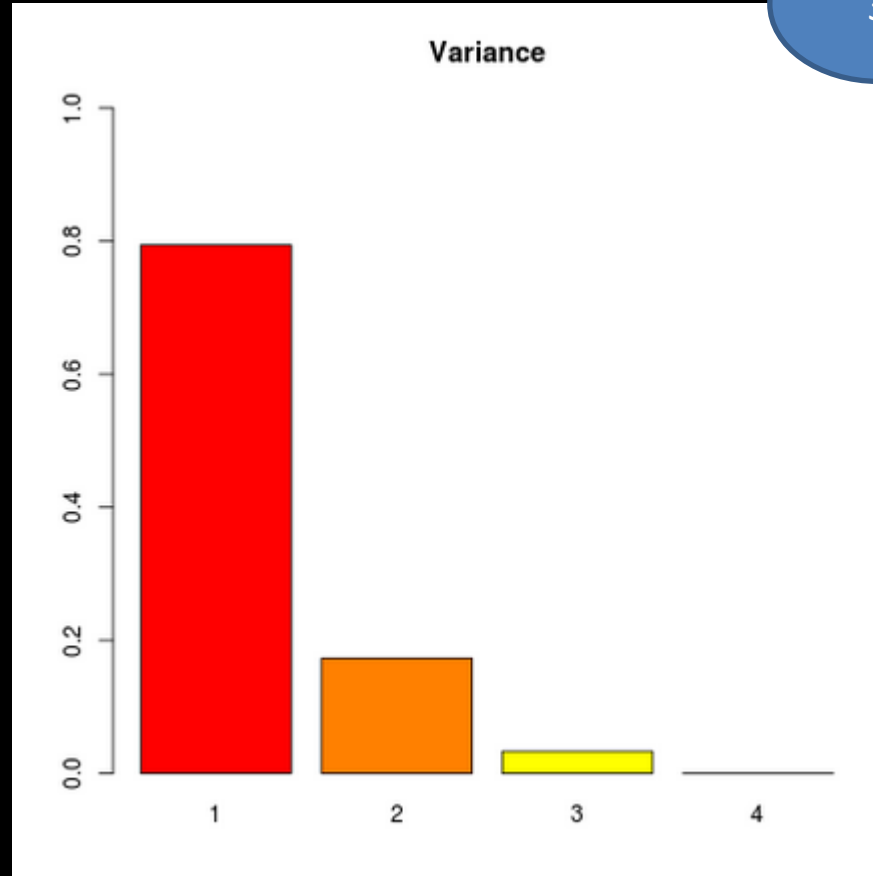
format: png, database: ?



Image in png format

2

The history with the output files of the tool



3

The plot generated with the tool

Plottool for PC and Centroid Size

plotPCACsize version 1.0.0

PC:
186: principle components

Csize procrustes:
185: centroid size procrustes

Main Title:
PC vs Csize

x axis label:
pca1

y axis label:
centroid

Pca :
1

data names:
162: sample_names

Execute

1

Tool view Plotttool PC and Csize
Selected PC, centroid size,
sample names

What it does

Plottool for plotting of principle component with centroid size

Input file

principle components coordinates (csv format)

centroid size of samples (csv format)

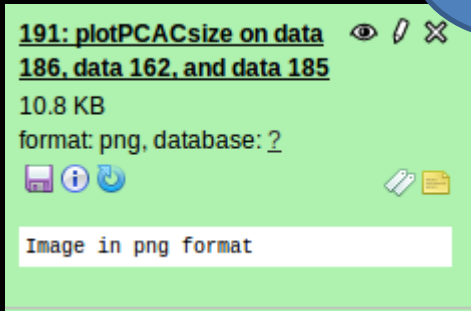
Tip

Use **PCA** to generate principle components

Use **Procrustes** to generate centroid size

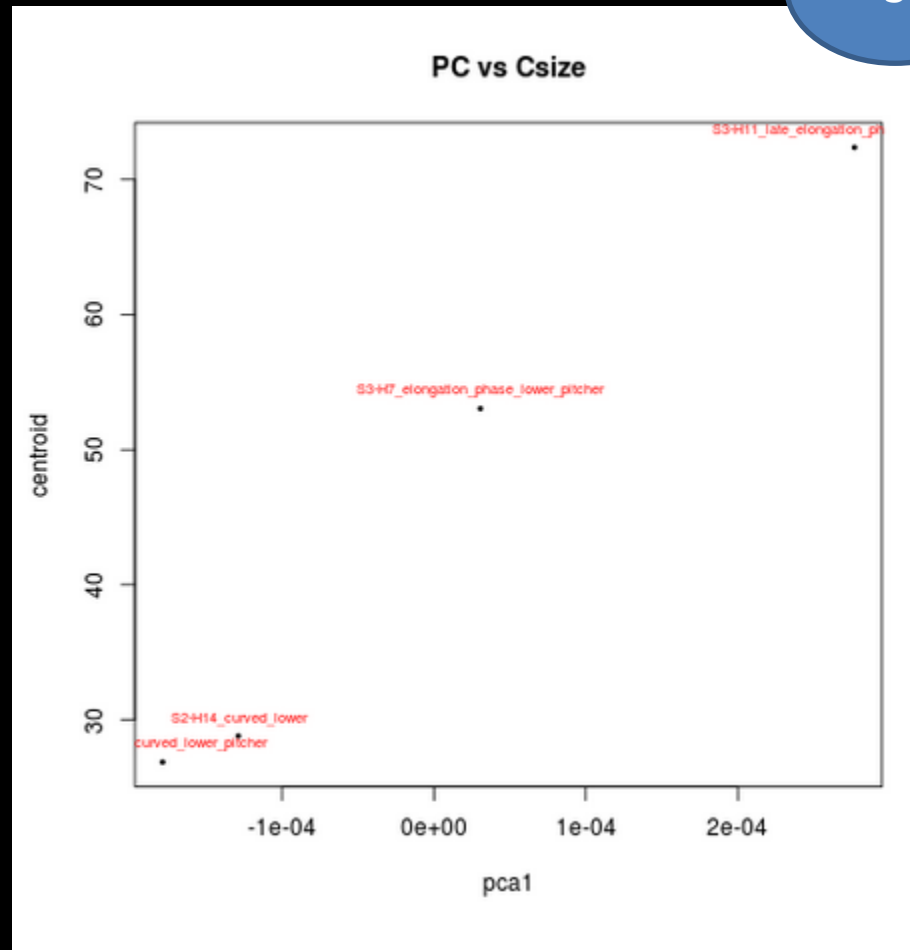
Plot for PC and Centroid Size

2



The history with the output files of the tool

3



The plot generated with the tool