

New Procrustes fit:
Dataset 'Tragulidae'

686 landmarks in 3 dimensions.

The dataset contains 25 observations, of which 25 are included for analyses.

Average shape:

Lmk.	Axis 1 (x)	Axis 2 (y)	Axis 3 (z)
1	0.04060870	-0.00978713	0.02302929
2	0.02411490	-0.02857323	-0.01097360
3	0.02532192	-0.02950389	-0.01274487
4	0.02701152	-0.03066658	-0.01381228
5	0.02885205	-0.03174885	-0.01436320
6	0.03081039	-0.03275590	-0.01452812
7	0.03292517	-0.03372307	-0.01433549
8	0.03524159	-0.03467231	-0.01377739
9	0.03775644	-0.03560689	-0.01285429
10	0.04045437	-0.03649851	-0.01148219
11	0.04323132	-0.03729305	-0.00952479
12	0.04580185	-0.03798775	-0.00718089
13	0.04798839	-0.03822812	-0.00465762
14	0.04972066	-0.03813132	-0.00201339
15	0.05110787	-0.03771563	0.00071403
16	0.05211829	-0.03701553	0.00335126
17	0.05278640	-0.03598268	0.00612667
18	0.05321055	-0.03461229	0.00908166
19	0.05317941	-0.03291032	0.01205002
20	0.05269557	-0.03088091	0.01506658
21	0.05162220	-0.02794943	0.01800478
22	0.04997155	-0.02514434	0.02027460
23	0.04782744	-0.02249036	0.02189882
24	0.04523302	-0.01995186	0.02289614
25	0.04216057	-0.01754223	0.02324268
26	0.03856948	-0.01530477	0.02290146
27	0.03454941	-0.01313855	0.02192790
28	0.03010305	-0.01086273	0.02043753
29	0.02514858	-0.00881919	0.01824965
30	0.02314437	-0.00784093	0.01679154
31	0.02144170	-0.00725719	0.01528040
32	0.02010609	-0.00723262	0.01367119
33	0.01920388	-0.00778121	0.01199094
34	0.01866515	-0.00880436	0.01024620
35	0.01848449	-0.01033184	0.00842769
36	0.01854021	-0.01229660	0.00647369
37	0.01883708	-0.01475311	0.00432714
38	0.01976002	-0.01775676	0.00232015
39	0.02098720	-0.01951798	0.00176218
40	0.02225705	-0.02118725	0.00120577
41	0.02324959	-0.02269615	0.00029338
42	0.02396325	-0.02404452	-0.00091886
43	0.02443451	-0.02523652	-0.00240309
44	0.02466456	-0.02629330	-0.00415310
45	0.02458003	-0.02714476	-0.00624008
46	0.02422212	-0.02774036	-0.00865545
47	0.01796991	-0.02801903	-0.01535618
48	0.02001458	-0.02929610	-0.01683032
49	0.02228292	-0.03048788	-0.01779980

50	0.02464474	-0.03158826	-0.01834011
51	0.02704513	-0.03270844	-0.01862466
52	0.02950180	-0.03374859	-0.01856220
53	0.03203387	-0.03477001	-0.01818850
54	0.03464035	-0.03574004	-0.01746816
55	0.03733033	-0.03670049	-0.01642740
56	0.04009157	-0.03758910	-0.01501078
57	0.04202160	-0.03822486	-0.01378204
58	0.04384326	-0.03872070	-0.01241910
59	0.04555723	-0.03912763	-0.01095693
60	0.04717801	-0.03944307	-0.00939133
61	0.04870046	-0.03966045	-0.00770676
62	0.05013050	-0.03977788	-0.00589141
63	0.05143518	-0.03974732	-0.00392757
64	0.05263597	-0.03960834	-0.00183331
65	0.05364137	-0.03923378	0.00040392
66	0.05444096	-0.03875427	0.00257079
67	0.05504596	-0.03810156	0.00468216
68	0.05549540	-0.03734056	0.00672340
69	0.05581101	-0.03647712	0.00870252
70	0.05595306	-0.03549718	0.01060984
71	0.05600178	-0.03443826	0.01247434
72	0.05587784	-0.03325004	0.01427021
73	0.05561696	-0.03194930	0.01600100
74	0.05517498	-0.03051236	0.01764114
75	0.05452931	-0.02854315	0.01960976
76	0.05354622	-0.02652114	0.02132998
77	0.05225089	-0.02439378	0.02287914
78	0.05056123	-0.02215558	0.02414677
79	0.04849505	-0.01979033	0.02511848
80	0.04602522	-0.01730190	0.02569206
81	0.04321391	-0.01469515	0.02596690
82	0.04010088	-0.01191702	0.02642289
83	0.03659433	-0.00911034	0.02637603
84	0.01935681	0.02476511	0.00619506
85	0.02030557	0.02599315	0.00447217
86	0.02185188	0.02730378	0.00312763
87	0.02372185	0.02835409	0.00213623
88	0.02570016	0.02912745	0.00133322
89	0.02775938	0.02972792	0.00062817
90	0.02994570	0.03017070	0.00003593
91	0.03228465	0.03050641	-0.00049725
92	0.03480387	0.03067091	-0.00088636
93	0.03749458	0.03061545	-0.00108525
94	0.04002609	0.03007200	-0.00099586
95	0.04255047	0.02957665	-0.00093729
96	0.04483561	0.02873112	-0.00057233
97	0.04692030	0.02765138	0.00002553
98	0.04887206	0.02637766	0.00077477
99	0.05070065	0.02488712	0.00168276
100	0.05236261	0.02317904	0.00280337
101	0.05387375	0.02121909	0.00410378
102	0.05510756	0.01901974	0.00565183
103	0.05635467	0.01524909	0.00812711
104	0.05668686	0.01174517	0.01057285
105	0.05626389	0.00865414	0.01287162
106	0.05523337	0.00591675	0.01496352
107	0.05365405	0.00345861	0.01685755
108	0.05154691	0.00118594	0.01857471
109	0.04873385	-0.00078278	0.02014129

110	0.04515464	-0.00228424	0.02155412
111	0.04091439	-0.00307029	0.02283229
112	0.03597231	-0.00319143	0.02227085
113	0.03159006	-0.00274253	0.02165001
114	0.02782772	-0.00185695	0.02099022
115	0.02462389	-0.00081028	0.02024291
116	0.02196651	0.00051538	0.01940785
117	0.01989023	0.00230985	0.01853381
118	0.01845209	0.00456445	0.01760554
119	0.01750222	0.00715105	0.01650558
120	0.01728033	0.01008590	0.01564173
121	0.01820650	0.01194789	0.01548736
122	0.01923461	0.01378478	0.01535362
123	0.01999148	0.01555814	0.01490568
124	0.02051620	0.01725746	0.01417670
125	0.02079758	0.01889539	0.01317324
126	0.02084220	0.02048866	0.01190027
127	0.02049207	0.02194820	0.01020286
128	0.01977764	0.02326703	0.00813927
129	0.01213753	0.02625579	0.00466833
130	0.01357677	0.02779923	0.00351227
131	0.01534115	0.02908003	0.00245119
132	0.01730097	0.03014039	0.00148222
133	0.01939224	0.03105195	0.00059048
134	0.02161886	0.03180847	-0.00022456
135	0.02397390	0.03246933	-0.00096368
136	0.02647460	0.03301445	-0.00163959
137	0.02912067	0.03345165	-0.00224660
138	0.03191866	0.03372892	-0.00276428
139	0.03419826	0.03381482	-0.00309217
140	0.03644102	0.03364854	-0.00327079
141	0.03861012	0.03333399	-0.00326928
142	0.04073785	0.03289182	-0.00316921
143	0.04282192	0.03226691	-0.00295573
144	0.04484887	0.03152737	-0.00260201
145	0.04682208	0.03063264	-0.00210292
146	0.04877520	0.02959564	-0.00150935
147	0.05063594	0.02835552	-0.00075616
148	0.05259962	0.02679440	0.00022815
149	0.05431803	0.02510931	0.00130260
150	0.05580545	0.02333070	0.00247363
151	0.05704520	0.02144721	0.00372598
152	0.05801861	0.01947747	0.00508481
153	0.05879373	0.01739518	0.00652646
154	0.05937337	0.01517731	0.00804836
155	0.05966772	0.01287504	0.00968453
156	0.05959692	0.01044122	0.01137040
157	0.05891144	0.00726431	0.01372075
158	0.05778766	0.00432208	0.01591797
159	0.05615317	0.00164775	0.01792560
160	0.05408188	-0.00077686	0.01977820
161	0.05155593	-0.00297547	0.02146265
162	0.04848989	-0.00486936	0.02290372
163	0.04492588	-0.00648901	0.02411349
164	0.04104154	-0.00794496	0.02540535
165	0.03659433	-0.00911034	0.02637603
166	0.02477938	-0.00767741	-0.01754804
167	0.02539860	-0.00705506	-0.01865119
168	0.02615951	-0.00613106	-0.01955133
169	0.02697957	-0.00498706	-0.02026759

170	0.02783109	-0.00365580	-0.02082078
171	0.02871135	-0.00214537	-0.02123424
172	0.02959662	-0.00044666	-0.02159233
173	0.03049791	0.00145227	-0.02188855
174	0.03141554	0.00355728	-0.02212723
175	0.03238415	0.00584883	-0.02215542
176	0.03322946	0.00749123	-0.02213007
177	0.03406403	0.00906227	-0.02188888
178	0.03484498	0.01058107	-0.02156097
179	0.03560654	0.01203269	-0.02107879
180	0.03632406	0.01348754	-0.02047304
181	0.03701026	0.01481315	-0.01972196
182	0.03766999	0.01605828	-0.01884959
183	0.03830269	0.01736803	-0.01782843
184	0.03886954	0.01847912	-0.01668786
185	0.03942122	0.01984682	-0.01528817
186	0.03982994	0.02098472	-0.01380573
187	0.04010139	0.02193018	-0.01223402
188	0.04022497	0.02268011	-0.01060547
189	0.04023137	0.02323297	-0.00889973
190	0.04010052	0.02358904	-0.00712502
191	0.03985195	0.02380703	-0.00526765
192	0.03947752	0.02381104	-0.00331287
193	0.03895987	0.02357678	-0.00128188
194	0.03771484	0.02274172	0.00203462
195	0.03625565	0.02148474	0.00475694
196	0.03467759	0.02004308	0.00698509
197	0.03293912	0.01837210	0.00866618
198	0.03105116	0.01659553	0.00992894
199	0.02898778	0.01459870	0.01071910
200	0.02677263	0.01237791	0.01101118
201	0.02440437	0.00993652	0.01073220
202	0.02196177	0.00727930	0.00976559
203	0.02108661	0.00523108	0.00895700
204	0.02037878	0.00329527	0.00796442
205	0.02000687	0.00144535	0.00678589
206	0.01975444	-0.00027387	0.00557381
207	0.01950643	-0.00184009	0.00426571
208	0.01935080	-0.00329076	0.00283627
209	0.01924797	-0.00469444	0.00123030
210	0.01953048	-0.00602528	-0.00044830
211	0.02055479	-0.00692089	-0.00197168
212	0.02127109	-0.00651816	-0.00335659
213	0.02213483	-0.00607046	-0.00474263
214	0.02296467	-0.00569703	-0.00622322
215	0.02360577	-0.00555141	-0.00782881
216	0.02403996	-0.00566339	-0.00955829
217	0.02424390	-0.00606239	-0.01143318
218	0.02419545	-0.00675376	-0.01349412
219	0.02414313	-0.00749678	-0.01571049
220	0.02317122	-0.01304630	-0.02078159
221	0.02425347	-0.01184388	-0.02177040
222	0.02528653	-0.01049623	-0.02262742
223	0.02626044	-0.00900568	-0.02333854
224	0.02717904	-0.00740950	-0.02394484
225	0.02806332	-0.00570699	-0.02439921
226	0.02891132	-0.00389627	-0.02472562
227	0.02972210	-0.00199304	-0.02495011
228	0.03050059	0.00001573	-0.02516233
229	0.03127634	0.00210785	-0.02535361

230	0.03206709	0.00408498	-0.02541819
231	0.03289150	0.00598315	-0.02541608
232	0.03368931	0.00781706	-0.02525265
233	0.03451248	0.00958273	-0.02496520
234	0.03533457	0.01128484	-0.02457606
235	0.03614620	0.01292831	-0.02401532
236	0.03694148	0.01450416	-0.02328835
237	0.03778907	0.01601307	-0.02245887
238	0.03855855	0.01745661	-0.02145743
239	0.03888475	0.01981946	-0.01940042
240	0.04010667	0.02183582	-0.01766443
241	0.04092429	0.02346424	-0.01575532
242	0.04146144	0.02477846	-0.01365837
243	0.04186063	0.02570415	-0.01147833
244	0.04194117	0.02643238	-0.00898900
245	0.04182865	0.02684829	-0.00631497
246	0.04166271	0.02708369	-0.00344115
247	0.04100844	0.02672020	-0.00049133
248	0.04004020	0.02600828	0.00324849
249	0.03847911	0.02463087	0.00637246
250	0.03685459	0.02308029	0.00905333
251	0.03501108	0.02125962	0.01123584
252	0.03297990	0.01917058	0.01297620
253	0.03070400	0.01678464	0.01422758
254	0.02818725	0.01409760	0.01498207
255	0.02542364	0.01111246	0.01522383
256	0.02245061	0.00787182	0.01489752
257	0.01311974	0.00081012	-0.00599028
258	0.01211988	0.00133279	-0.00615102
259	0.01110153	0.00174106	-0.00635382
260	0.01008689	0.00199581	-0.00651821
261	0.00909724	0.00212087	-0.00668821
262	0.00816223	0.00217749	-0.00678693
263	0.00720180	0.00222086	-0.00706723
264	0.00627080	0.00183617	-0.00701892
265	0.00533404	0.00147619	-0.00709163
266	0.00437515	0.00100064	-0.00722394
267	0.00318884	0.00049737	-0.00726539
268	0.00217223	-0.00009021	-0.00732366
269	0.00133961	-0.00075967	-0.00742249
270	0.00067825	-0.00152598	-0.00759176
271	0.00018559	-0.00238301	-0.00778955
272	-0.00012641	-0.00337071	-0.00802264
273	-0.00023340	-0.00447706	-0.00827512
274	-0.00012205	-0.00570941	-0.00852679
275	0.00025350	-0.00700665	-0.00874122
276	0.00126596	-0.00781609	-0.00924688
277	0.00231528	-0.00840274	-0.00966156
278	0.00336064	-0.00875194	-0.00997013
279	0.00438509	-0.00889165	-0.01014926
280	0.00536773	-0.00885461	-0.01029585
281	0.00634414	-0.00861265	-0.01033560
282	0.00731506	-0.00819964	-0.01030828
283	0.00828336	-0.00754335	-0.01021225
284	0.00922618	-0.00671279	-0.00996160
285	0.01011190	-0.00603193	-0.00965554
286	0.01088653	-0.00531008	-0.00929159
287	0.01152931	-0.00455440	-0.00887661
288	0.01208771	-0.00376425	-0.00846834
289	0.01254380	-0.00293754	-0.00806331

290	0.01288061	-0.00205944	-0.00760495
291	0.01309599	-0.00113320	-0.00710039
292	0.01319768	-0.00015255	-0.00660502
293	-0.02768308	0.01718270	0.01941047
294	-0.03022887	0.01984586	0.01811725
295	-0.03220200	0.02177986	0.01711424
296	-0.03478377	0.02353117	0.01459100
297	-0.03554843	0.02348547	0.01306878
298	-0.03618281	0.02298134	0.01125725
299	-0.03639074	0.02161232	0.00895399
300	-0.03754934	-0.01148858	0.01715389
301	-0.04012593	-0.01195934	0.01625402
302	-0.04213213	-0.01230430	0.01542294
303	-0.04353278	-0.01237817	0.01437383
304	-0.04478177	-0.01197325	0.01188552
305	-0.04488234	-0.01159536	0.01041200
306	-0.04458698	-0.01102164	0.00864487
307	-0.01737373	-0.02039989	0.00550097
308	-0.01783002	-0.02165117	0.00390649
309	-0.01824721	-0.02263293	0.00252172
310	-0.01878252	-0.02316415	0.00123457
311	-0.02020256	-0.02288478	-0.00110691
312	-0.02108258	-0.02216539	-0.00222413
313	-0.02210858	-0.02101811	-0.00330923
314	-0.03244555	0.01145394	0.00418604
315	-0.03368563	0.01280432	0.00337355
316	-0.03466838	0.01357718	0.00236778
317	-0.03537208	0.01383813	0.00134392
318	-0.03617262	0.01340602	-0.00071322
319	-0.03635202	0.01277002	-0.00188435
320	-0.03637515	0.01177692	-0.00322261
321	-0.03849339	-0.00879772	0.00629643
322	-0.04110544	-0.00906026	0.00522892
323	-0.04239054	-0.00915521	0.00399106
324	-0.04369166	-0.00922539	0.00206446
325	-0.04386329	-0.00906095	0.00105027
326	-0.04384959	-0.00878194	-0.00010548
327	-0.04356113	-0.00832062	-0.00148310
328	-0.02324900	-0.01480116	-0.00193401
329	-0.02362478	-0.01691101	-0.00392286
330	-0.02499212	-0.01672697	-0.00587073
331	-0.02590579	-0.01703389	-0.00784914
332	-0.02643707	-0.01673714	-0.00865598
333	-0.02707031	-0.01623264	-0.00946346
334	-0.02785163	-0.01541633	-0.01028893
335	0.01089745	0.01562618	0.00002251
336	0.00987758	0.01510403	0.00046266
337	0.00866976	0.01398805	0.00140338
338	0.00615076	0.01488158	0.00081772
339	0.00427949	0.01479386	0.00132820
340	0.00236149	0.01497835	0.00183894
341	0.00016328	0.01509739	0.00270817
342	-0.00223351	0.01497970	0.00399439
343	-0.00478399	0.01458522	0.00555050
344	-0.00742612	0.01432772	0.00720140
345	-0.00905341	0.01414934	0.00796046
346	-0.01073991	0.01400082	0.00871312
347	-0.01245927	0.01381340	0.00944722
348	-0.01420475	0.01347069	0.01020545
349	-0.01599076	0.01309078	0.01093188

350	-0.01780415	0.01255071	0.01169396
351	-0.01965002	0.01187184	0.01247362
352	-0.02151018	0.01103545	0.01328089
353	-0.02329753	0.00994064	0.01413172
354	-0.02554348	0.00815345	0.01471392
355	-0.02744617	0.00630501	0.01514523
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674	-0.03568408	-0.00993671	-0.01549212
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676	-0.03525457	-0.00562102	-0.01691023
677	0.00896616	-0.00298176	0.01823674
678	0.01261677	-0.00482254	0.02068938
679	0.01656493	-0.00637264	0.02248977
680	0.02043876	-0.00769886	0.02385096
681	0.02413490	-0.00881400	0.02528425
682	0.02779454	-0.00975251	0.02623312
683	0.03136132	-0.01043158	0.02703710
684	0.03490290	-0.01103825	0.02748983
685	0.03838440	-0.01134739	0.02763691
686	0.04175177	-0.01150017	0.02745858

Procrustes sums of squares: 0.1731635305092391

Tangent sums of squares: 0.17190531554749228

Data matrices in this dataset:

- TragulidaeGM, raw data
- Tragulidae, centroid size
- Tragulidae, Procrustes coordinates

Principal Component Analysis: PCA: CovMatrix, Tragulidae, Procrustes coordinates

	Eigenvalues%	Variance	Cumulative %
1.	0.00178417	24.909	24.909
2.	0.00084187	11.754	36.663
3.	0.00059519	8.310	44.972
4.	0.00042005	5.864	50.837
5.	0.00038996	5.444	56.281
6.	0.00036225	5.057	61.338

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'Coordinates for shape change graph for 'PC1' from 'PCA: CovMatrix, Tragulidae, Procrustes coordinates' in the MorphoJ project named 'new project...'

'The scale factor used for the shape change is 0.1

'Generated by MorphoJ, version 1.06d

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starting_shape

PC1 hypothetical value 0.1

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'Coordinates for shape change graph for 'PC1' from 'PCA: CovMatrix,
Tragulidae, Procrustes coordinates' in the MorphoJ project named 'new
project...'

'The scale factor used for the shape change is -0.1

'Generated by MorphoJ, version 1.06d

1 2L 2058 1 9999 Dim=3

starting_shape

PC1 hypothetical value -0.1

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3.5402918E-002 -8.0316794E-003 2.6907339E-002
3.7913226E-002 -7.5282678E-003 2.5745628E-002

'Coordinates for shape change graph for 'PC2' from 'PCA: CovMatrix,
Tragulidae, Procrustes coordinates' in the MorphoJ project named 'new
project...'

'The scale factor used for the shape change is -0.1

'Generated by MorphoJ, version 1.06d

1 2L 2058 1 9999 Dim=3

starting_shape

PC2 hypothetical value -0.1

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'Coordinates for shape change graph for 'PC2' from 'PCA: CovMatrix,
Tragulidae, Procrustes coordinates' in the MorphoJ project named 'new
project...'

'The scale factor used for the shape change is 0.1

'Generated by MorphoJ, version 1.06d

1 2L 2058 1 9999 Dim=3

starting_shape

PC2 hypothetical value 0.1

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