

Supplementary material for the paper "Means in spaces of tree-like shapes" by Aasa Feragen, Søren Hauberg, Mads Nielsen and Francois Lauze.

Description: Here we provide supplementary material in the form of image and videos illustrating the convergence of the Birkhoff shortening and Centroid algorithms discussed in Section 4 on the examples from Section 5 of the paper. The videos, called centroid.mp4 and birkhoff.mp4, plot the same sequences of the 4-point datasets of trees seen in the top row of fig. 8 in the main paper.

In order to visualize the Birkhoff shortening process, fig. 1 shows all the trees in each of the first 5 iterative steps of the algorithm on the 4-point dataset shown in the top row of fig. 8 in the main paper. The centroid algorithm is visualized similarly in fig. 2. Attached are also two videos, called centroid.mp4 and birkhoff.mp4, which plot the same converging sequences on top of each other.

Size: The total size is about 1.3 MB.

Player information: The two enclosed videos can both be viewed using VLC player, which can be downloaded from <http://www.videolan.org/vlc/>.

Extended Object List:

There are two videos in mp4 format:

- centroid.mp4
- birkhoff.mp4

There are two figures in pdf format:

- fig1.pdf
- fig2.pdf

Contact information: For any questions please contact Author (aasa@diku.dk).