

Visualizations of macroevolutionary timescales

SND-ID: 2024-254. **Version:** 1. **DOI:** <https://doi.org/10.5878/2e0h-4d76>

Download data

MOVIE01.mp4 (101.06 MB)

MOVIE02.mp4 (103.38 MB)

MOVIE03.mp4 (103.85 MB)

MOVIE04.mp4 (107.67 MB)

Download all files

2024-254-1.zip (~415.96 MB)

Citation

Stenlund, J. (2018) Visualizations of macroevolutionary timescales (Version 1) [Data set]. Linköping University. Available at: <https://doi.org/10.5878/2e0h-4d76>

Creator/Principal investigator(s)

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Description

Data consisting of animations of different temporal aspects of hominin evolution.

The aim of the study was to investigate how various representations of time in an animation affect the way undergraduate students comprehend different temporal aspects of hominin evolution. Two factors, differences in timelines (the number of timelines with different scales) and the mode of the default animated time rate– either constant throughout the animation or decreasing as the animation progressed – were combined to give four different time representations.

The animations are designed as a map on which animated areas are superimposed. Each area represented the appearance, dispersal and disappearance of a chosen sample of different species, or groups of species in hominin evolution. All animations are three-and-a-half minute long. These features are shared by all versions of the animation. The only difference between the various animations is how time is represented. The visual representation of time is located below the map and consists of two components: one or several timelines with different scales, and an animated cursor moving horizontally along the timeline, indicating current time and rate of time in the animation.

Description of the different temporal representations in the animations:

Animation A One timeline and a constant time rate.

Animation B One timeline and a time rate that decreases as the animation approach present time.

Animation C three emerging timelines of increasing scales become visible as the animation approach

present time and a constant time rate.

Animation D three emerging timelines of increasing scales become visible, and a time rate that decreases as the animation approach present time.

NOTE: Using Macintosh computer and the Safari web browser might cause an error loading the videos. In order to guarantee the video function in Macintosh computers, please use another web browser such as Chrome, FireFox or Opera.

The dataset was originally published in DiVA and moved to SND in 2024.

Data contains personal data

No

Language

[English](#)

Data format / data structure

[Video](#)

Identifiers

URN: [urn:nbn:se:liu:diva-153235](https://nbn-resolving.org/urn:nbn:se:liu:diva-153235)

Research area

[Earth and related environmental sciences](#) (Standard för svensk indelning av forskningsämnen 2011)

[Zoology](#) (Standard för svensk indelning av forskningsämnen 2011)

[Evolutionary biology](#) (Standard för svensk indelning av forskningsämnen 2011)

Keywords

[Animation](#), [Hominoidea](#), [Evolution](#), [Visualisation](#), [Pan \(hominids\)](#)

Accessibility level

Access to data through SND

Data are freely accessible

Use of data

[Things to consider when using data shared through SND](#)

Versions

Version 1. 2018-12-04

Download metadata

[DataCite](#)

[DDI 2.5](#)

[DDI 3.3](#)

[DCAT-AP-SE 2.0](#)

[JSON-LD](#)

[PDF](#)

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[File overview \(CSV\)](#)

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