

sift's tutorials use real data sets wherever possible in order to demonstrate realistic scenarios and avoid overly simplistic examples.

contents

- [1 load and view data](#)
- [2 clean your data](#)
- [3 perform principal component analysis](#)
- [4 export results](#)
- [5 treadmill walking in healthy individuals](#)

load and view data

this tutorial can be completed with any [cmz](#) file. you can use a data set from a visual3d workshop at a recent asb meeting. [v3d workshop @ asb](#)].

clean your data

this tutorial uses overground walking data from four subjects. the subjects walked at three different speeds; slow, normal and fast. [four subjects walking data set](#)].

perform principal component analysis

this tutorial uses overground walking data from roughly 100 subjects divided into two conditions: normal control and osteoarthritis (moderate to severe). this data set can be found in the demo folder of your sift installation.

export results

this tutorial uses the same overground walking data set as the [clean your data](#) tutorial. [four subjects walking data set](#)].

it also uses predefined queries that have been saved in a .q3d file. [ankleangles.q3d](#)].

treadmill walking in healthy individuals

this tutorial explores fukuchi et al.'s “gold standard” public data set of marker-based motion capture to describe [healthy individuals walking overground and on a treadmill](#).

the dataset is available through figshare: [data set](#)].

supporting files are provided to simplify some of the tutorial's steps: [supporting files](#)].

From:

<https://has-motion.com/wiki/> - **Wiki Documentation Site**

Permanent link:

https://has-motion.com/wiki/doku.php?id=sift:tutorials:tutorial_files&rev=1718801214

Last update: **2024/06/19 12:46**

