

# Directory\_Structure\_for\_Input\_Data

There is a basic directory structure for Inspect3D's input data that aligns with some useful concepts from the experiments that produced the data. This directory structure organizes the [CMZ files](#) and [C3D files](#) that contain the information relevant for analysis. This structure has 5 levels, from root folder to deepest leaf they are:

1. Study
2. Group
3. Session
4. Task
5. Trial

## Study

Although the name of this directory level suggests that the data it contains is only used for one study, this is not necessary. As a top-level concept this is the largest, most general database that is stored in one location. This could be specific to a study, or it could be specific to a project, researcher, lab, or consortium. In these latter cases it is possible to define [queries](#) to extract the specific signals that are desired for an individual study.

## Group

This level of the directory structure is optional, but it allows the researcher to divide c3d files according to desired parameters, e.g., Women - Men, Old - Young. If this level is omitted from the structure then individual C3D files can be [tagged](#) with the necessary parameters to allow for their specific selection.

## Session

This directory level can be conceived as a single day (or single effort) of data collection within the database. This is the most important level as this is where the [CMZ file](#) and log files get stored. This is also the level of the directory where static models are stored for all subjects involved in the session.

## Task

This level of the directory allows the researcher to divide c3d files according to the desired activity, e.g., walking, running, jumping, etc. As with group-level parameters, C3D files can be coded with these different tasks by using [tags](#).

## Trial

At this level of the directory structure we have individual trials. This means that we have the individual C3D files that are recorded by the motion capture system.

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