

# Package ‘multimolang’

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**Type** Package  
**Title** Multimodal Language Analysis Tools  
**Version** 0.1.0  
**Description** Tools for analyzing multimodal language data. Includes dfMaker for processing OpenPose outputs.  
**License** AGPL-3  
**Encoding** UTF-8  
**Imports** arrow  
**Suggests** testthat (>= 3.0.0),  
roxygen2  
**URL** [https://github.com/tu\\_usuario/multimolang](https://github.com/tu_usuario/multimolang)  
**BugReports** [https://github.com/tu\\_usuario/multimolang/issues](https://github.com/tu_usuario/multimolang/issues)  
**RoxygenNote** 7.3.2  
**Config/testthat/edition** 3

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dfMaker	<i>dfMaker Function</i>
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## Description

‘dfMaker’ processes and organizes keypoints data generated by OpenPose, compiling multiple JSON files into a structured data frame suitable for further analysis, visualization, or machine learning applications.

## Usage

```
dfMaker(
  input.folder,
  config.path,
  output.file = NULL,
  output.path = NULL,
  no_save = FALSE,
  fast_scaling = TRUE,
  transformation_coords = c(1, 1, 5, 5)
)
```

## Arguments

- |                                    |  |
|------------------------------------|--|
| <code>input.folder</code>          | Path to the folder containing OpenPose JSON files.   |
| <code>config.path</code>           | Path to the configuration file. If not provided, the default configuration is used.  |
| <code>output.file</code>           | Name of the output file. If 'NULL', an auto-generated name is used.  |
| <code>output.path</code>           | Path to save the output file. If 'NULL', saves in a default directory.   |
| <code>no_save</code>               | Logical. If 'TRUE', the output is not saved to a file.   |
| <code>fast_scaling</code>          | Logical. If 'TRUE', uses fast scaling for transformation. <b>Warning:</b> When 'fast_scaling' is 'TRUE', scaling is performed only using pose keypoints ('t_typepoint' = 1'), and the secondary vector 'v.j' is not utilized.  |
| <code>transformation_coords</code> | <p>Numeric vector of length 4 that specifies the transformation coordinates. Each element of the vector has a specific role:</p> <ol style="list-style-type: none"> <li>1. <b>'t_typepoint'</b>: Type of keypoints to use. Possible values:           <ol style="list-style-type: none"> <li>(a) '1': Body keypoints (pose).</li> <li>(b) '2': Face keypoints.</li> <li>(c) '3': Left hand keypoints.</li> <li>(d) '4': Right hand keypoints.</li> <li>(e) 'NA': Default keypoint type or automatically determined.</li> </ol> </li> <li>2. <b>'o_point'</b>: Index of the keypoint used as the <b>origin</b> in the new coordinate system.</li> <li>3. <b>'i_point'</b>: Index of the keypoint that defines the primary base vector 'v.i'.</li> <li>4. <b>'j_point'</b>: Index of the keypoint that defines the secondary base vector 'v.j'.           <ul style="list-style-type: none"> <li>- If 'i_point == j_point', 'v.j' is calculated as a <b>perpendicular</b> vector to 'v.i' (orthonormalization).</li> <li>- If 'fast_scaling = TRUE', 'v.j' is not utilized and should be set to 'NA'.</li> </ul> </li> </ol> |

## Value

A data frame containing the processed keypoints data.

**Examples**

```
## Not run:
df <- dfMaker(
  input.folder = "path/to/json",
  config.path = "path/to/config.yml",
  output.file = "result.csv",
  output.path = "output/directory",
  no_save = FALSE,
  fast_scaling = TRUE,
  transformation_coords = c(1, 1, 5, 5)
)

## End(Not run)
```

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