

Package ‘DICOMread’

May 7, 2026

Title Reading and Saving DICOM Image Files

Version 0.0.0.3

Description This function provides an interface between 'Matlab' and 'R' in facilitating fast processing for reading and saving DICOM images.

License GPL-3

Encoding UTF-8

RoxygenNote 7.1.1

Imports matlabr

Depends R (>= 2.10)

NeedsCompilation no

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Contents

| | |
|------------------------|---|
| Avb_fun | 1 |
| check_mat | 2 |
| form_mat_fun | 2 |

| | |
|--------------|----------|
| Index | 4 |
|--------------|----------|

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|---------|--|
| Avb_fun | <i>Function to check whether Matlab is available</i> |
|---------|--|

Description

Function to check whether Matlab is available

Usage

```
Avb_fun()
```

Value

a boolean variable

Examples

```
Avb_fun()
```

| | |
|-----------|---|
| check_mat | <i>Function to check whether the DICOM matrix has been saved successfully</i> |
|-----------|---|

Description

Function to check whether the DICOM matrix has been saved successfully

Usage

```
check_mat(file_name)
```

Arguments

| | |
|-----------|--|
| file_name | the name of the .csv file saved under form_mat_fun() |
|-----------|--|

Value

a boolean variable

| | |
|--------------|---|
| form_mat_fun | <i>Function to construct and save data matrix from the DICOM file</i> |
|--------------|---|

Description

Function to construct and save data matrix from the DICOM file

Usage

```
form_mat_fun(path_in, out_name)
```

Arguments

| | |
|----------|--|
| path_in | a file path for the DICOM variable, needs to be a string |
| out_name | name of the saved .csv file, need to be a string |

form_mat_fun

3

Value

saved .csv file of the data matrix

Index

[Avb_fun](#), 1

[check_mat](#), 2

[form_mat_fun](#), 2