

# Package ‘DICOMread’

May 15, 2021

**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

**Author** Shu Jiang [aut, cre] (<<https://orcid.org/0000-0003-1464-4838>>)

**Maintainer** Shu Jiang <[jiang.shu@wustl.edu](mailto:jiang.shu@wustl.edu)>

**Repository** CRAN

**Date/Publication** 2021-05-15 17:30:02 UTC

## R topics documented:

Avb_fun . . . . .	1
check_mat . . . . .	2
form_mat_fun . . . . .	2

<b>Index</b>	<b>4</b>
--------------	----------

---

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	afile 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