

# Package ‘imputePSF’

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**Type** Package

**Title** Impute Missing Data in Time Series Data with PSF Based Method

**Version** 0.1.0

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**Description** Imputes the missing values in time series data with PSF algorithm based approach.  
The details about PSF algorithm are available at:  
<<https://cran.r-project.org/package=PSF>>.

**License** GPL

**Imports** PSF, graphics, stats

**LazyData** TRUE

**RoxygenNote** 5.0.1

**NeedsCompilation** no

**Repository** CRAN

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heal_data	<i>Function to impute the missing values in time series data</i>
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**Description**

Function to impute the missing values in time series data

**Usage**

```
heal_data(dataIn, patch)
```

**Arguments**

dataIn	as input time series data with missing values (NAs)
patch	as missing data patches as returned with "missing_patch()" function

**Value**

returns imputed data

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impute_PSF	<i>Function to find missing values in time series data and to impute these missing values</i>
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**Description**

Function to find missing values in time series data and to impute these missing values

**Usage**

```
impute_PSF(dataIn)
```

**Arguments**

dataIn	as input time series data with missing values
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**Value**

returns the time series data with imputed values

**Examples**

```
# d <- c(1:5,1:5,1:5,1:5,NA,NA,NA,NA,NA,1:5,1:5,1:5,1:5,NA,NA,NA,NA,NA,1:5,1:5,1:5,1:5)
# impute_PSF(d)
```

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insert_patch	<i>Function to insert data in time series data</i>
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**Description**

Function to insert data in time series data

**Usage**

```
insert_patch(dataIn, pos, dataInsert)
```

**Arguments**

dataIn	as input time series data
pos	as position at with insert new data patch to be insert
dataInsert	as data to be inserted in time series data "dataIn"

**Value**

returns the time series data with inserted data patch

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missing_patch	<i>To find out the missing data in given dataset</i>
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**Description**

To find out the missing data in given dataset

**Usage**

```
missing_patch(dataIn)
```

**Arguments**

dataIn	as input time series data with missing values (NAs)
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**Value**

patch representing table with missing value patches

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