# Package 'lookup'

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Title Functions Similar to VLOOKUP in Excel	
Version 1.0	
<b>Description</b> Simple functions to lookup items in keyvalue pairs. See Mehta (2021) <doi:10.1007 978-1-4842-6613-7_6="">.</doi:10.1007>	
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R topics documented:	
1	2 3
Index	4

2 lookup

lookup	Lookup items in key-value pairs of vectors
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## **Description**

This is a simple wrapper to the match function.

## Usage

```
lookup(x, key, value, nomatch = NA)
```

### **Arguments**

x Vector of items to lookup in key-value pairs.

key Vector of keys that are searched. value Vector of values to be returned.

nomatch The value to be returned in the case when no match is found. Note that it is

coerced to integer.

#### **Details**

Search for elements of x in key and return the corresponding element of value. If no match is found, return nomatch.

#### Value

A vector the same length as x, but containing the values of value. If x[i] is equal to key[j], then the value returned in the ith position of the vector is value[j]. If no match is found, NA is returned.

#### Author(s)

Kevin Wright

## **Examples**

vlookup 3

```
TrtMean <- tapply(dat$x, dat$Trt, mean, na.rm=TRUE)
TrtMean
# Merge the means into the original data
dat$TrtMean <- lookup(dat$Trt, names(TrtMean), TrtMean)</pre>
```

vlookup

Lookup items in key-value dataframe similar to Excel's vlookup function

## Description

This is a simple wrapper to the match function.

## Usage

```
vlookup(x, data, key, value, nomatch = NA)
```

## **Arguments**

x Vector of items to lookup in key-value pairs.data Dataframe containing key-value columns.

key Vector of keys that are searched. value Vector of values to be returned.

nomatch The value to be returned in the case when no match is found. Note that it is

coerced to integer.

#### **Details**

Search for elements of x in dataframe data, column key, and return the corresponding element of column value. If no match is found, return nomatch.

#### Value

A vector the same length as x, but containing the values of value. If x[i] is equal to key[j], then the value returned in the ith position of the vector is value[j]. If no match is found, NA is returned.

#### Author(s)

Kevin Wright

#### **Examples**

## **Index**

lookup, 2

vlookup, 3