

# Package ‘verbalisr’

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**Type** Package

**Title** Describe Pedigree Relationships in Words

**Version** 0.7.2

**Description** Describe in words the genealogical relationship between two members of a given pedigree, using the algorithm in Vigeland (2022) <[doi:10.1186/s12859-022-04759-y](https://doi.org/10.1186/s12859-022-04759-y)>. ‘verbalisr’ is part of the ‘pedsuite’ collection of packages for pedigree analysis. For a demonstration of ‘verbalisr’, see the online app ‘QuickPed’ at <<https://magnusdv.shinyapps.io/quickped>>.

**License** GPL-3

**URL** <https://github.com/magnusdv/verbalisr>,  
<https://magnusdv.github.io/pedsuite/>

**BugReports** <https://github.com/magnusdv/verbalisr/issues>

**Depends** pedtools (>= 2.7.1), R (>= 4.1)

**Imports** ribd (>= 1.6.1)

**Suggests** testthat

**Encoding** UTF-8

**Language** en-GB

**LazyData** true

**RoxygenNote** 7.3.2

**NeedsCompilation** no

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habsburg	<i>Habsburg pedigree.</i>
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### Description

A subset of the royal Habsburg family, showing the ancestry of (the infamously inbred) King Charles II of Spain.

### Usage

```
habsburg
```

### Format

A ped object containing a pedigree with 29 members.

### Source

Adapted from [https://en.wikipedia.org/wiki/Habsburg\\_family\\_tree](https://en.wikipedia.org/wiki/Habsburg_family_tree)

### Examples

```
plot(habsburg, hatched = "Charles II", cex = 0.7)
verbalise(habsburg, ids = parents(habsburg, "Charles II"))
```

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print.pairrel	<i>Format and print relationship descriptions</i>
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### Description

This documents the options for formatting and printing the output of [verbalise\(\)](#).

**Usage**

```
## S3 method for class 'pairrel'
print(x, ...)

## S3 method for class 'pairrel'
format(
  x,
  cap = TRUE,
  simplify = FALSE,
  abbreviate = FALSE,
  collapse = NULL,
  includePaths = !simplify,
  ...
)
```

**Arguments**

x	An output of <a href="#">verbalise()</a> .
...	Arguments passed on to <a href="#">format.pairrel()</a> .
cap	A logical indicating if the first letter of each path description should be capitalised. By default TRUE.
simplify	A logical. If TRUE, the descriptions of lineal and avuncular relationships are simplified. Default: FALSE.
abbreviate	A logical. If TRUE, various abbreviations are applied to the descriptions, e.g. 'great-great-' -> 'gg-' and 'once removed' -> 'lr'. Default: FALSE.
collapse	A single string, or NULL. If given, and the relationship has multiple descriptions, these are concatenated with <code>paste(..., collapse = collapse)</code> .
includePaths	A logical indicating if the complete paths should be included in the output. By default TRUE.

verbalise

*Describe a pairwise relationship***Description**

The description includes all pedigree paths between the two individuals, indicating with brackets the topmost common ancestors in each path. See [print.pairrel\(\)](#) for formatting options when printing the results.

**Usage**

```
verbalise(x, ids = leaves(x))
```

## Arguments

- x A ped object, or a list of such.
- ids A vector containing the names of two pedigree members.

## Value

An object of class `pairrel`. This is essentially a list of lists, containing many details about each path between the individuals. Most users will not interact with this list directly, but simply use the description provided by the `print()` method.

## See Also

[print.pairrel\(\)](#).

## Examples

```
# Example 1: Family quartet

x = nuclearPed(2)
verbalise(x, 1:2)
verbalise(x, 2:3)
verbalise(x, 3:4)

# Simplified output
verbalise(x, 2:3) |> print(simplify = TRUE)

# Example 2: Complicated cousin pedigree

y = doubleCousins(degree1 = 1, removal1 = 1, half1 = TRUE,
                   degree2 = 2, removal2 = 0, half2 = FALSE)
verbalise(y)

# Example 3: Full sib mating

z = fullSibMating(1)
verbalise(z)
verbalise(z, ids = c(1,5))
verbalise(z, ids = c(1,5)) |> print(simplify = TRUE)

# Example 4: Quad half first cousins

w = quadHalfFirstCousins()
verbalise(w)
```

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