



### Workflow

```
|— read_mnirs()
| |— create_mnirs_data()
| |— example_mnirs()
|— resample_mnirs()
|— replace_mnirs()
| |— replace_invalid()
| |— replace_outliers()
| |— replace_missing()
|— filter_mnirs()
| |— filter_ma()
| |— filter_butter()
|— shift_mnirs()
|— rescale_mnirs()
|— plot.mnirs()
| |— theme_mnirs()
| |— palette_mnirs()
| |— scale_colour_mnirs()
| |— scale_fill_mnirs()
| |— format_hmmss()
| |— breaks_timespan()
|— extract_intervals()
```

### Read

`read_mnirs()` – Import mnirs data from .csv or .xls(x)

#### Package-level functions

`example_mnirs()` – Paths to an included example file

`create_mnirs_data()` – Add “mnirs” class metadata to data

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### Resample

`resample_mnirs()` – Resample to a regular time grid

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### Clean

`replace_mnirs()` – Replace outliers, invalid, and missing data

#### Vector-level functions

`replace_outliers()` – Replace local outliers

`replace_invalid()` – Replace specified invalid values

`replace_missing()` – Interpolate over NA values

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### Filter

`filter_mnirs()` – Apply digital filter to mNIRS channels

#### Vector-level functions

`filter_butter()` – Apply a Butterworth digital filter

`filter_ma()` – Apply centred moving average smoothing

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### Transform

`shift_mnirs()` – Shift channels to a reference value

`rescale_mnirs()` – Rescale channels data range

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### Plot

`plot()` – Plot a data frame of class “mnirs”

`theme_mnirs()` – ggplot2 theme for mnirs plots

`palette_mnirs()` – Access the mnirs colour palette

`scale_colour_mnirs()` – Colour scale with mnirs palette

`scale_fill_mnirs()` – Fill scale with mnirs palette

`format_hmmss()` – Plot axis in time units

`breaks_timespan()` – Plot axis with time breaks

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### Extract

`extract_intervals()` – Detect events and extract intervals