

# Package: acane (via r-universe)

May 31, 2026

**Type** Package

**Title** 'Arrow C API' 'nanoarrow' Examples

**Version** 0.0.1

**Date** 2025-09-17

**Description** Programming via the C API of 'Arrow' is powerful, and while documentation exists additional examples should be helpful. Some examples are collected here.

**URL** <https://github.com/eddelbuettel/acane>

**BugReports** <https://github.com/eddelbuettel/acane/issues>

**License** GPL (>= 2)

**Imports** Rcpp (>= 1.1.0), nanoarrow

**LinkingTo** Rcpp, nanoarrow

**Suggests** tinytest, DBI, adbcpostgresql, adbcdrivermanager, arrow, duckdb, dplyr, palmerpenguins, reticulate

**RoxygenNote** 6.0.1

**Config/pak/sysreqs** libzstd-dev

**Repository** <https://eddelbuettel.r-universe.dev>

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acane-package                    *'Arrow C API' 'nanoarrow' Examples*

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### Description

Programming via the C API of 'Arrow' is powerful, and while documentation exists additional examples should be helpful. Some examples are collected here.

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### Maintainer

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create\_struct\_example    *create\_struct\_example*

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### Description

Create a Simple 'struct' Arrow Object

### Usage

```
create_struct_example()
```

### Details

A two-column 'struct' is created and returned, containing respectively an integer and a floating point column each with one missing value

### Value

A external pointer object is returned containing a pointer to the Arrow array with a pointer to the schema tucked away in the 'tag' component as is common for **nanoarrow** objects

### Examples

```
s <- create_struct_example()
s                    # pretty-printed in full details thanks to 'nanoarrow' S3 methods
as.data.frame(s)    # converted thanks to 'nanoarrow' S3 methods
```

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show_array	<i>Display Arrow Structures Array or Schema</i>
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**Description**

Helper functions showing elements of 'Arrow Array' or 'Arrow Schema' objects provided via an external pointer

**Usage**

```
show_array(sxparr)
```

```
show_schema(sxparr)
```

```
array_xptr_set_schema(array_xptr, schema_xptr)
```

```
array_xptr_get_schema(array_xptr)
```

**Arguments**

sxparr	An external pointer to an 'Arrow Array' also containing a pointer to the corresponding 'Arrow Schema' in its 'tag' slot
array_xptr	A external pointer to an Arrow array data structure
schema_xptr	A external pointer to an Arrow schema data structure

**Value**

Nothing is returned, the functions are invoked for the side effect of printing

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