

# Package ‘repairData’

October 21, 2021

**Title** Open Repair Alliance Datasets 2021

**Version** 0.1.0

**Description** The complete data set of open repair data, full compliant with the Open Repair Data Standards (ORDS).

It combines the datasets contributed by partner organizations of the Open Repair Alliance (ORA). Last updated: 2021-02-22.

The package also contains via quests enriched datasets on batteries, printer, mobiles, and tablets.

**License** MIT + file LICENSE

**Encoding** UTF-8

**LazyData** true

**RoxygenNote** 7.1.2

**Depends** R (>= 3.5.0)

**URL** <https://github.com/petzi53/repairData>

**BugReports** <https://github.com/petzi53/repairData/issues>

**NeedsCompilation** no

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**Repository** CRAN

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batteries

*Batteries*

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### Description

Categorizing repair attempts on battery-powered devices recorded at community events.

### Usage

batteries

### Format

An object of class `spec_tbl_df` (inherits from `tbl_df`, `tbl`, `data.frame`) with 995 rows and 12 columns.

### Details

Dataset of battery-powered device repair records from the Open Repair Alliance in ORDS format style with added `step_barrier` values. Results of [Open Repair Data quest BattCat](#).

**id\_ords** ID. Unique identifier from the partner organisation.

**data\_provider** Data provider. Option from ORDS codelist. Name of partner organisation.

**country** Country. Three letter **ISO code**, e.g. “GBR”.

**step\_barrier\_id** Fault type ID.

**step\_barrier** Fault type. Name of the step or barrier. Option from [battery codelist](#).

**product\_category** Product category. Option from ORDS [product category codelist](#)

**brand** Brand.

**repair\_status** Repair status option from the battery codelist.

**year\_of\_manufacture** Year of manufacture.

**event\_date** Event date. The date of the repair event that the repair took place at.

**language** Language of problem description. 2 char ISO language code.

**problem** Problem description.

### Source

<https://github.com/openrepair/data/tree/master/quests/batteries>

mobiles

*Mobiles***Description**

Result of two online quests where volunteer participants looked at about 1900 mobile phone repair attempts recorded at community events.

**Usage**

mobiles

**Format**

An object of class `spec_tbl_df` (inherits from `tbl_df`, `tbl`, `data.frame`) with 1916 rows and 11 columns.

**Details**

Dataset of printer repair records from the Open Repair Alliance in ORDS format style with added `fault_type` values. Results of [Results of Open Repair Data quests MobiFix and MobiFix:ORA](#).

There are some differences in the structure of this data and any of the ORDS format versions (0.1 and 0.2). The records involved span different ORDS versions and a handful have not yet been exported.

1. The usual ORDS id values have been replaced by special mobifix-specific unique identifiers
2. The model field was removed from the ORDS v0.2 standard but was useful for these quests and so has been retained in this dataset
3. Age is an important metric in repair policy, therefore it was derived from and replaced the `year_of_manufacture` field
4. The field `group_identifier` is irrelevant in this analysis and thus has been omitted from the dataset

[MobiFix](#) was held in July 2020 using data from ORA partner The Restart Project. [MobiFix:ORA](#) was held in March 2021 using data from ORA partners anstiftung and Repair Café International.

**id** ID.

**data\_provider** Data provider. Option from ORDS codelist. Name of partner organisation.

**country** Country. Three letter [ISO code](#), e.g. “GBR”.

**fault\_type** Fault type.

**product\_category** Product category. Option from ORDS [product category codelist](#).

**brand** Brand.

**model** Product model.

**repair\_status** Result of the repair attempt.

**age** Product age.

**event\_date** Event date. The date of the repair event that the repair took place at.

**problem** Problem description.

**Source**

<https://github.com/openrepair/data/tree/master/quests/mobiles>

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printers

*Printers*

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**Description**

Result of an online quest where volunteer participants looked at printer repair attempts recorded at community events.

**Usage**

printers

**Format**

An object of class `spec_tbl_df` (inherits from `tbl_df`, `tbl`, `data.frame`) with 773 rows and 12 columns.

**Details**

Dataset of printer repair records from the Open Repair Alliance in ORDS format style with added `fault_type` values. Results of [Open Repair Data quest PrintCat](#).

**id\_ords** ID. Unique identifier from the partner organisation.

**data\_provider** Data provider. Option from ORDS codelist. Name of partner organisation.

**country** Country. Three letter **ISO code**, e.g. “GBR”.

**fault\_type\_id** Fault type ID.

**fault\_type** Fault type. Option from [printer codelist](#).

**product\_category** Product category. Option from ORDS [product category codelist](#)

**brand** Brand.

**repair\_status** Repair status option from the printer codelist.

**year\_of\_manufacture** Year of manufacture.

**event\_date** Event date. The date of the repair event that the repair took place at.

**language** Language of problem description. 2 char ISO language code.

**problem** Problem description.

**Source**

<https://github.com/openrepair/data/tree/master/quests/printers>

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 repairs

*Full open repair data dataset*


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### Description

The full ORDS compliant data set of open repair data. It is the combination of the datasets contributed by partner organisations of the Open Repair Alliance (ORA). Last updated: 22nd Feb 2021.

### Usage

repairs

### Format

An object of class `spec_tbl_df` (inherits from `tbl_df`, `tbl`, `data.frame`) with 48669 rows and 12 columns.

### Details

The dataset conforms to the [Open Repair Data Standard](#) (ORDS, Version 0.2.1). But some new changes — like the addition of the `repair_barrier` field — are not yet populated.

The dataset is aggregated from five different sets:

1. **Anstiftung**: Community repair data collected in the [Reparatur-Initiativen platform](#) from June 2018 onwards. Product categories mapped to working set of ORDS categories – these may be remapped in future.
2. **Fixit Clinic**: Data collected via the [Broken Item Report](#) form as part of Fixit Clinic’s community repair events. Product categories mapped to working set of ORDS categories – these may be remapped in future.
3. **Repair Cafe International**: Community repair data gathered using the [Repair Monitor](#) platform.
4. **Repair Cafe Wales**
5. **The Restart Project**: Data gathered at community repair events and recorded in the Fixometer module of [Restarters.net](#).

From the ORDS documentation reference, the columns include:

**id** ID. Unique identifier from the partner organisation. Does not have to be unique across all partner data.

**data\_provider** Data provider. Option from ORDS codelist. Name of partner organisation.

**country** Country. Three letter [ISO code](#), e.g. “GBR”.

**partner\_product\_category** Partner category. Option from partner codelist.

**product\_category** Product category. Option from ORDS [product category codelist](#)

**brand** Brand.

**year\_of\_manufacture** Year of manufacture.

**repair\_status** Repair status option from the ORDS [repair status codelist](#).  
**repair\_barrier\_if\_end\_of\_life** Repair barrier. Option from ORDS [repair barrier codelist](#).  
**group\_identifier** Group identifier. A unique identifier across all partners that can identify the group responsible for the repair.  
**event\_date** Event date. The date of the repair event that the repair took place at.  
**problem** Problem description in language of the repair site event.

### Source

<https://openrepair.org/open-data/downloads/>

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tablets

*Tablets*

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### Description

Result of an online quest where volunteer participants looked at tablet repair attempts recorded at community events.

### Usage

tablets

### Format

An object of class `spec_tbl_df` (inherits from `tbl_df`, `tbl`, `data.frame`) with 647 rows and 12 columns.

### Details

Dataset of tablet repair records from the Open Repair Alliance in ORDS format style with added `fault_type` values. Results of [Open Repair Data quest TabiCat](#)".

**id\_ords** ID. Unique identifier from the partner organisation.

**data\_provider** Data provider. Option from ORDS codelist. Name of partner organisation.

**country** Country. Three letter [ISO code](#), e.g. "GBR".

**fault\_type\_id** Fault type ID.

**fault\_type** Fault type. Option from [tablet codelist](#).

**product\_category** Product category. Option from ORDS [product category codelist](#)

**brand** Brand.

**repair\_status** Repair status option from the tablet codelist.

**year\_of\_manufacture** Year of manufacture.

**event\_date** Event date. The date of the repair event that the repair took place at.

**language** Language of problem description. 2 char ISO language code.

**problem** Problem description.

*tablets*

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**Source**

<https://github.com/openrepair/data/tree/master/quests/tablets>

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