

# Package: zerenebatchR (via r-universe)

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**Type** Package

**Title** Utility for Batch Processing in Zerene Stacker

**Version** 0.2.3

**Imports** fs, magrittr, xml2, stringr

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**Description** Writes Zerene Stacker batch files and executes them from the commandline.

**License** MIT + file LICENSE

**Encoding** UTF-8

**LazyData** true

**RoxygenNote** 7.3.0

**Config/pak/sysreqs** make libicu-dev libxml2-dev

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

**RemoteUrl** <https://github.com/ethanbass/zerenebatchr>

**RemoteRef** HEAD

**RemoteSha** e42bf23d71f119caaa693c2cc31bb123546ea4ca

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expand\_zs\_dataframe    *Expand data.frame*

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### Description

This function facilitates stacking photos that are numbered sequentially. It must be supplied with a `data.frame` with columns containing the information about the images to be stacked.

### Usage

```
expand_zs_dataframe(  
  df,  
  c_path,  
  c_id,  
  c_start,  
  c_end,  
  extension = "JPG",  
  digits = 4  
)
```

### Arguments

<code>df</code>	A <code>data.frame</code> containing the first and last photo, file path, and grouping variable.
<code>c_path</code>	String or numerical index specifying the column where the file paths can be found. Paths should
<code>c_id</code>	String or numerical index specifying column where factor can be found for grouping images.
<code>c_start</code>	String or numerical index specifying the column containing the first photo of each stack.
<code>c_end</code>	String or numerical index specifying the column containing the last photo of each stack.
<code>extension</code>	String specifying the file extension of the images. The extension must be in the correct case so it matches exactly to the extension of the files to be stacked.
<code>digits</code>	How many digits should be in the number.

### Value

Expanded `data.frame`

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run_zs_batch	<i>Create and run batch scripts in Zerene Stacker</i>
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**Description**

Create and run batch scripts in Zerene Stacker

**Usage**

```
run_zs_batch(
  files,
  c_split = 1,
  c_path = 2,
  path_out,
  stacker = c("pmax", "dmap"),
  temp,
  path_template = NULL,
  path_xml = NULL,
  stack = TRUE
)
```

**Arguments**

files	A data.frame or character vector. If stack == TRUE, a data.frame should be provided with at least 2 columns containing the paths of the files to parse (c_path) and a grouping factor (c_split). If stack == FALSE, a character vector should be provided containing paths to the stacked files.
c_split	String or numerical index specifying column where factor can be found for grouping images.
c_path	String or numerical index specifying column where paths can be found.
path_out	directory to export converted files.
stacker	Which stacking algorithm to use. Either pmax or dmap.
temp	Logical. If TRUE, the function will stack files into a temp directory which will be deleted when the operation is completed. Thus, the organization of the original image files will be maintained. Otherwise, images will be moved permanently into new folders according to the provided grouping variable. Defaults to TRUE.
path_template	Path to custom template to be customized according to the provided arguments (optional).
path_xml	path to write xml file (optional).
stack	Logical. Whether to stack the files or not. Defaults to TRUE.

**Value**

No return value.

**Side effects**

Images will be stacked according to the provided grouping variable, a Zerene Stacker batch file will be generated, and images will be stacked into the folder specified by path\_out.

**Author(s)**

Ethan Bass

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stack\_files

*Stack files in folders*

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**Description**

Stack files in folders

**Usage**

```
stack_files(df, c_path, c_split, temp = TRUE)
```

**Arguments**

df	data.frame containing at least 2 columns containing the paths of the files to parse and a grouping factor.
c_path	String or numerical index specifying column where paths can be found.
c_split	String or numerical index specifying column where factor can be found for grouping images.
temp	Logical. If TRUE, the function will stack files into a temp directory which will be deleted when the operation is completed. Thus, the organization of the original image files will be maintained. Otherwise, images will be moved permanently into new folders according to the provided grouping variable. Defaults to TRUE.

**Author(s)**

Ethan Bass

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