

# Package ‘projmgr’

July 23, 2025

**Title** Task Tracking and Project Management with GitHub

**Version** 0.1.1

**Description** Provides programmatic access to 'GitHub' API with a focus on project management. Key functionality includes setting up issues and milestones from R objects or 'YAML' configurations, querying outstanding or completed tasks, and generating progress updates in tables, charts, and RMarkdown reports. Useful for those using 'GitHub' in personal, professional, or academic settings with an emphasis on streamlining the workflow of data analysis projects.

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**URL** <https://github.com/emilyriederer/projmgr>

**BugReports** <https://github.com/emilyriederer/projmgr/issues>

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**Author** Emily Riederer [cre, aut]

**Maintainer** Emily Riederer <emilyriederer@gmail.com>

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browse\_docs

*View GitHub API documentation*

---

## Description

Opens browser to relevant parts of GitHub API documentation to learn more about field definitions and formatting. Inspired by similar browse\_ functions included in the usethis package.

**Usage**

```
browse_docs(
  action = c("get", "post"),
  object = c("milestone", "issue", "issue event", "issue comment", "repo labels")
)
```

**Arguments**

|        |                                                                                                                    |
|--------|--------------------------------------------------------------------------------------------------------------------|
| action | Character string denoting action you wish to complete: "get" (list existing) or "post" (creating new)              |
| object | Character string denoting object on wish you want to apply an action. Supports "milestone", "issue", "issue event" |

**Value**

Returns URL in non-interactive session or launches browser to docs in interactive session

**Examples**

```
## Not run:
browse_docs('get', 'milestone')

## End(Not run)
```

---

|               |                                            |
|---------------|--------------------------------------------|
| browse_issues | <i>Browse issues for given GitHub repo</i> |
|---------------|--------------------------------------------|

---

**Description**

Opens browser to GitHub issues for a given repo. Inspired by similar browse\_ functions included in the usethis package.

**Usage**

```
browse_issues(repo_ref, number = "")
```

**Arguments**

|          |                                                                                  |
|----------|----------------------------------------------------------------------------------|
| repo_ref | Repository reference as created by create_repo_ref()                             |
| number   | Optional argument of issue number, if opening page for specific issue is desired |

**Value**

Returns URL in non-interactive session or launches browser to docs in interactive session

## Examples

```
## Not run:
my_repo <- create_repo_ref("repo_owner", "repo")
browse_issues(my_repo)

## End(Not run)
```

---

|                   |                                                |
|-------------------|------------------------------------------------|
| browse_milestones | <i>Browse milestones for given GitHub repo</i> |
|-------------------|------------------------------------------------|

---

## Description

Opens browser to GitHub milestones for a given repo. Inspired by similar browse\_ functions included in the usethis package.

## Usage

```
browse_milestones(repo_ref, number = "")
```

## Arguments

|          |                                                                                      |
|----------|--------------------------------------------------------------------------------------|
| repo_ref | Repository reference as created by create_repo_ref()                                 |
| number   | Optional argument of milestone ID, if opening page for specific milestone is desired |

## Value

Returns URL in non-interactive session or launches browser to docs in interactive session

## Examples

```
## Not run:
my_repo <- create_repo_ref("repo_owner", "repo")
browse_milestones(my_repo)

## End(Not run)
```

---

|             |                                   |
|-------------|-----------------------------------|
| browse_repo | <i>Browse a given GitHub repo</i> |
|-------------|-----------------------------------|

---

**Description**

Opens browser to a given GitHub repo. Inspired by similar browse\_ functions included in the usethis package.

**Usage**

```
browse_repo(repo_ref)
```

**Arguments**

|          |                                                      |
|----------|------------------------------------------------------|
| repo_ref | Repository reference as created by create_repo_ref() |
|----------|------------------------------------------------------|

**Value**

Returns URL in non-interactive session or launches browser to docs in interactive session

**Examples**

```
## Not run:  
my_repo <- create_repo_ref("repo_owner", "repo")  
browse_repo(my_repo)  
  
## End(Not run)
```

---

|                   |                                                         |
|-------------------|---------------------------------------------------------|
| check_credentials | <i>Check for valid credentials and repo permissions</i> |
|-------------------|---------------------------------------------------------|

---

**Description**

Check for valid credentials and repo permissions

**Usage**

```
check_credentials(ref)
```

**Arguments**

|     |                                                                                                                                |
|-----|--------------------------------------------------------------------------------------------------------------------------------|
| ref | Any repository reference being used. Repository information is stripped out and only authentication credentials are validated. |
|-----|--------------------------------------------------------------------------------------------------------------------------------|

**Value**

Prints GitHub username as determined by credentials (if valid) and repo-level permissions (if any), else throws 401 Unauthorized error.

### Examples

```
## Not run:
experigit <- create_repo_ref('emilyriederer', 'experigit')
check_authentication(experigit)

## End(Not run)
```

---

|                |                                                                      |
|----------------|----------------------------------------------------------------------|
| check_internet | <i>Check internet connection (re-export of curl::has_internet())</i> |
|----------------|----------------------------------------------------------------------|

---

### Description

Basic wrapper around `curl::has_internet()`

### Usage

```
check_internet()
```

### Value

Returns TRUE is connected to internet and false otherwise

### See Also

Other check: [check\\_rate\\_limit\(\)](#)

### Examples

```
## Not run:
check_internet()

## End(Not run)
```

---

|                  |                                               |
|------------------|-----------------------------------------------|
| check_rate_limit | <i>Find requests remaining and reset time</i> |
|------------------|-----------------------------------------------|

---

### Description

Source: copied from `httr` vignette "Best practices for API packages" by Hadley Wickham

### Usage

```
check_rate_limit(ref)
```

**Arguments**

|     |                                                                                                                                                       |
|-----|-------------------------------------------------------------------------------------------------------------------------------------------------------|
| ref | Any repository reference being used. Repository information is stripped out and only authentication credentials are used to determine the rate limit. |
|-----|-------------------------------------------------------------------------------------------------------------------------------------------------------|

**Value**

Informative message on requests remaining and reset time

**See Also**

Other check: [check\\_internet\(\)](#)

**Examples**

```
## Not run:
experigit <- create_repo_ref('emilyriederer', 'experigit')
check_rate_limit(experigit)

## End(Not run)
```

---

|                 |                                                |
|-----------------|------------------------------------------------|
| create_repo_ref | <i>Create reference to a GitHub repository</i> |
|-----------------|------------------------------------------------|

---

**Description**

This function constructs a list of needed information to send API calls to a specific GitHub repository. Specifically, it stores information on the repository's name and owner, the type (whether or not Enterprise GitHub), and potentially credentials to authenticate.

**Usage**

```
create_repo_ref(
  repo_owner,
  repo_name,
  is_enterprise = FALSE,
  hostname = "",
  identifier = ""
)
```

**Arguments**

|               |                                                                                   |
|---------------|-----------------------------------------------------------------------------------|
| repo_owner    | Repository owner's username or GitHub Organization name                           |
| repo_name     | Repository name                                                                   |
| is_enterprise | Boolean denoting whether or not working with Enterprise GitHub. Defaults to FALSE |
| hostname      | Host URL stub for Enterprise repositories (e.g. "mycorp.github.com")              |

|            |                                                                                                                                                                                                                                                             |
|------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| identifier | Ideally should be left blank and defaults to using GITHUB_PAT or GITHUB_ENT_PAT environment variables as Personal Access Tokens. If identifier, this is assumed to be an alternative name of the environment variable to use for your Personal Access Token |
|------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

### Details

Note that this package can be used for GET requests on public repositories without any authentication (resulting in a lower rate limit.) To do this, simply pass any string into identifier that is not an environment variable already defined for your system (e.g. accessible through `Sys.getenv("MY_VAR")`)

### Value

List of repository reference information and credentials

### Examples

```
## Not run:
myrepo <- create_repo_ref('emilyriederer', 'myrepo')

## End(Not run)
```

---

get\_issues

*Get issues from GitHub repository*

---

### Description

A single issue can be obtained by identification number of number is passed through ...s. In this case, all other query parameters will be ignored.

### Usage

```
get_issues(ref, limit = 1000, ...)
```

### Arguments

|       |                                                                                                                                                        |
|-------|--------------------------------------------------------------------------------------------------------------------------------------------------------|
| ref   | Repository reference (list) created by <code>create_repo_ref()</code>                                                                                  |
| limit | Number of records to return, passed directly to gh documentation. Defaults to 1000 and provides message if number of records returned equals the limit |
| ...   | Additional user-defined query parameters. Use <code>browse_docs()</code> to learn more.                                                                |

### Value

Content of GET request as list



## See Also

Other issues: [get\\_issue\\_comments\(\)](#), [get\\_issue\\_events\(\)](#), [parse\\_issue\\_comments\(\)](#), [parse\\_issue\\_events\(\)](#), [parse\\_issues\(\)](#), [post\\_issue\\_update\(\)](#), [post\\_issue\(\)](#), [report\\_discussion\(\)](#), [report\\_progress\(\)](#), [viz\\_waterfall\(\)](#)

## Examples

```
## Not run:
myrepo <- create_repo_ref('emilyriederer', 'myrepo')
issues_res <- get_issues(myrepo)
issues <- parse_issues(issues_res)

## End(Not run)
```

---

|                    |                                                                 |
|--------------------|-----------------------------------------------------------------|
| get_issue_comments | <i>Get comments for a specific issue from GitHub repository</i> |
|--------------------|-----------------------------------------------------------------|

---

## Description

In addition to information returned by GitHub API, appends field "number" for the issue number to which the returned comments correspond.

## Usage

```
get_issue_comments(ref, number, ...)
```

## Arguments

|        |                                                                                         |
|--------|-----------------------------------------------------------------------------------------|
| ref    | Repository reference (list) created by <code>create_repo_ref()</code>                   |
| number | Number of issue                                                                         |
| ...    | Additional user-defined query parameters. Use <code>browse_docs()</code> to learn more. |

## Value

Content of GET request as list

## See Also

Other issues: [get\\_issue\\_events\(\)](#), [get\\_issues\(\)](#), [parse\\_issue\\_comments\(\)](#), [parse\\_issue\\_events\(\)](#), [parse\\_issues\(\)](#), [post\\_issue\\_update\(\)](#), [post\\_issue\(\)](#), [report\\_discussion\(\)](#), [report\\_progress\(\)](#), [viz\\_waterfall\(\)](#)

Other comments: [parse\\_issue\\_comments\(\)](#), [report\\_discussion\(\)](#)

## Examples

```
## Not run:
myrepo <- create_repo_ref('emilyriederer', 'myrepo')
comments_res <- get_issue_comments(myrepo, number = 1)
comments <- parse_issue_comments(comments_res)

## End(Not run)
```

---

get\_issue\_events

*Get events for a specific issue from GitHub repository*


---

## Description

In addition to information returned by GitHub API, appends field "number" for the issue number to which the returned events correspond.

## Usage

```
get_issue_events(ref, number, dummy_events = TRUE)
```

## Arguments

|              |                                                                                                                                                                                                                                |
|--------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ref          | Repository reference (list) created by <code>create_repo_ref()</code>                                                                                                                                                          |
| number       | Number of issue                                                                                                                                                                                                                |
| dummy_events | Logical for whether or not to create a 'dummy' event to denote the existence of issues which have no events. Defaults to TRUE (to allow creation). Default behavior makes the process of mapping over multiple issues simpler. |

## Value

Content of GET request as list

## See Also

Other issues: [get\\_issue\\_comments\(\)](#), [get\\_issues\(\)](#), [parse\\_issue\\_comments\(\)](#), [parse\\_issue\\_events\(\)](#), [parse\\_issues\(\)](#), [post\\_issue\\_update\(\)](#), [post\\_issue\(\)](#), [report\\_discussion\(\)](#), [report\\_progress\(\)](#), [viz\\_waterfall\(\)](#)

Other events: [parse\\_issue\\_events\(\)](#)

## Examples

```
## Not run:
myrepo <- create_repo_ref('emilyriederer', 'myrepo')

# single issue workflow
events_res <- get_issue_events(myrepo, number = 1)
events <- parse_issue_events(events_res)
```

```
# multi-issue workflow
issue_res <- get_issues(my_repo, state = 'open')
issues <- parse_issues(issue_res)
events <- purrr::map_df(issues$number, ~get_issue_events(myrepo, .x) %>% parse_issue_events())

## End(Not run)
```

---

|                |                                              |
|----------------|----------------------------------------------|
| get_milestones | <i>Get milestones from GitHub repository</i> |
|----------------|----------------------------------------------|

---

## Description

A single milestone can be obtained by identification number of number is passed through ...s. In this case, all other query parameters will be ignored.

## Usage

```
get_milestones(ref, ...)
```

## Arguments

|     |                                                                                         |
|-----|-----------------------------------------------------------------------------------------|
| ref | Repository reference (list) created by <code>create_repo_ref()</code>                   |
| ... | Additional user-defined query parameters. Use <code>browse_docs()</code> to learn more. |

## Value

Content of GET request as list

## See Also

Other milestones: [parse\\_milestones\(\)](#), [post\\_milestone\(\)](#)

## Examples

```
## Not run:
myrepo <- create_repo_ref("emilyriederer", "myrepo")
milestones_res <- get_milestones(myrepo)
milestones <- parse_milestones(milestones_res)

## End(Not run)
```

---

|                 |                                        |
|-----------------|----------------------------------------|
| get_repo_labels | <i>Get all labels for a repository</i> |
|-----------------|----------------------------------------|

---

**Description**

Get all labels for a repository

**Usage**

```
get_repo_labels(ref)
```

**Arguments**

ref                      Repository reference (list) created by create\_repo\_ref()

**Value**

Content of GET request as list

**See Also**

Other labels: [parse\\_repo\\_labels\(\)](#)

**Examples**

```
## Not run:  
labels_res <- get_repo_labels(my_repo)  
labels <- parse_repo_labels(labels_res)  
  
## End(Not run)
```

---

|      |                                                               |
|------|---------------------------------------------------------------|
| help | <i>Learn about optional fields for related get_ functions</i> |
|------|---------------------------------------------------------------|

---

**Description**

The help family of functions lists the optional query parameters available for each of the related get\_ functions. When no optional arguments are available, a blank character vector is returned.

**Usage**

```
help_get_issues()

help_get_issue_events()

help_get_issue_comments()

help_get_milestones()

help_get_repo_label()

help_post_issue()

help_post_issue_update()

help_post_milestone()
```

**Details**

For more details on these parameters, please use the `browse_docs()` function to navigate to the appropriate part of the GitHub API documentation.

**Value**

Character string of optional field names

**Examples**

```
help_get_issues()
help_get_milestones()
```

---

|                              |                                                                       |
|------------------------------|-----------------------------------------------------------------------|
| <code>listcol_extract</code> | <i>Extract new dataframe column from list-column matching pattern</i> |
|------------------------------|-----------------------------------------------------------------------|

---

**Description**

Creates a new column in your dataframe based on a subset of list-column values following a certain pattern. For example, this is useful if you have labels you always apply to a repository with a set structure, e.g. key-value pairs like "priority:high", "priority:medium", and "priority:low" or other structures like "engagement-team", "teaching-team", etc. This function could create a new variable (e.g. "priority", "team") with the values encoded within the labels.

**Usage**

```
listcol_extract(data, col_name, regex, new_col_name = NULL, keep_regex = FALSE)
```

**Arguments**

|              |                                                                                                           |
|--------------|-----------------------------------------------------------------------------------------------------------|
| data         | Dataframe containing a list column (e.g. an issues dataframe)                                             |
| col_name     | Character string containing column name of list column (e.g. labels_name or assignees_login)              |
| regex        | Character string of regular expression to identify list items of interest (e.g. "^priority:", "(bug featu |
| new_col_name | Optional name of new column. Otherwise regex is used, stripped of any leading or trailing punctuation     |
| keep_regex   | Optional logical denoting whether to keep regex part of matched item in value. Defaults to FALSE          |

**Details**

This function works only if each observatino contains at most one instance of a given patterns. When multiple labels match the same pattern, one is returned at random.

**Value**

Dataframe with new column taking values extracted from list column

**Examples**

```
## Not run:
issues <- get_issues(repo)
issues_df <- parse_issues(issues)
listcol_extract(issues_df, "labels_name", "-team$")

## End(Not run)
```

---

|                |                                                 |
|----------------|-------------------------------------------------|
| listcol_filter | <i>Filter dataframe by list-column elements</i> |
|----------------|-------------------------------------------------|

---

**Description**

Some outputs of the get\_ and parse\_ functions contain list-columns (e.g. the labels column in the issues dataframe). This is an efficient way to represent the provided information, but may make certain information seem slightly inaccessible. This function allows users to filter list columns by the presence of one or more values or a regular expression.

**Usage**

```
listcol_filter(data, col_name, matches, is_regex = FALSE)
```

**Arguments**

|          |                                                                                                                                                      |
|----------|------------------------------------------------------------------------------------------------------------------------------------------------------|
| data     | Dataframe containing a list column (e.g. an issues dataframe)                                                                                        |
| col_name | Character string containing column name of list column (e.g. labels_name or assignees_login)                                                         |
| matches  | A character vector containing a regular expression or one or more exact-match values. An observation will be kept in the returned data if any of the |
| is_regex | Logical to indicate whether character indicates a regular expression or specific values                                                              |

**Value**

Dataframe containing only rows in which list-column contains element matching provided criteria

**Examples**

```
## Not run:
issues <- get_issues(repo)
issues_df <- parse_issues(issues)

# keep observation containing a label of either "bug" or "feature"
listcol_filter(issues_df, col_name = "labels_name", matches = c("bug", "feature"))

# keep observation containing a label that starts with "region"
listcol_filter(issues_df, col_name = "labels_name", matches = "^region:", is_regex = TRUE)

## End(Not run)
```

listcol\_pivot

*Pivot list-column elements to indicator variables***Description**

Some outputs of the `get_` and `parse_` functions contain list-columns (e.g. the labels column in the issues dataframe). This is an efficient way to represent the provided information, but may make certain information seem slightly inaccessible. This function allows users to "pivot" these list columns and instead create a separate indicator variable to represent the presence or absence of matches within the list column.

**Usage**

```
listcol_pivot(
  data,
  col_name,
  regex = ".",
  transform_fx = identity,
  delete_orig = FALSE
)
```

Arguments

|              |                                                                                                           |
|--------------|-----------------------------------------------------------------------------------------------------------|
| data         | Dataframe containing a list column (e.g. an issues dataframe)                                             |
| col_name     | Character string containing column name of list column (e.g. labels_name or assignees_login)              |
| regex        | Character string of regular expression to identify list items of interest (e.g. "^priority:", "(bug featu |
| transform_fx | Function to transform label name before converting to column (e.g. sub(":",<br>"_"))                      |
| delete_orig  | Logical denoting whether or not to delete original list column provided by col_name                       |

Details

For example, if a repository tags issues with "priority:high", "priority:medium", and "priority:low" along with other labels, this function could be used to create separate "high", "medium", and "low" columns to denote different issue severities. This could be done with listcol\_pivot(data, "labels\_name", "^priority:", function(x) sub("^priority:", ""))

Value

Dataframe additional logical columns denoting absence / presence of specified list-column elements

Examples

```
## Not run:
issues <- get_issues(repo)
issues_df <- parse_issues(issues)
listcol_pivot(issues_df,
  col_name = "labels_name",
  regex = "^priority:",
  transform_fx = function(x) paste0("label_",x),
  delete_orig = TRUE)

## End(Not run)
```

---

|              |                                              |
|--------------|----------------------------------------------|
| parse_issues | <i>Parse issues overview from get_issues</i> |
|--------------|----------------------------------------------|

---

Description

Parse issues overview from get\_issues

Usage

```
parse_issues(res)
```

Arguments

|     |                                              |
|-----|----------------------------------------------|
| res | List returned by corresponding get_ function |
|-----|----------------------------------------------|



**Value**

data.frame with one record / issue

**See Also**

Other issues: [get\\_issue\\_comments\(\)](#), [get\\_issue\\_events\(\)](#), [get\\_issues\(\)](#), [parse\\_issue\\_comments\(\)](#), [parse\\_issue\\_events\(\)](#), [post\\_issue\\_update\(\)](#), [post\\_issue\(\)](#), [report\\_discussion\(\)](#), [report\\_progress\(\)](#), [viz\\_waterfall\(\)](#)

**Examples**

```
## Not run:
myrepo <- create_repo_ref('emilyriederer', 'myrepo')
issues_res <- get_issues(myrepo)
issues <- parse_issues(issues_res)

## End(Not run)
```

---

|                      |                                                      |
|----------------------|------------------------------------------------------|
| parse_issue_comments | <i>Parse issue comments from get_issues_comments</i> |
|----------------------|------------------------------------------------------|

---

**Description**

Parse issue comments from get\_issues\_comments

**Usage**

```
parse_issue_comments(res)
```

**Arguments**

res                      List returned by corresponding get\_ function

**Value**

Dataframe with one record / issue-comment

**See Also**

Other issues: [get\\_issue\\_comments\(\)](#), [get\\_issue\\_events\(\)](#), [get\\_issues\(\)](#), [parse\\_issue\\_events\(\)](#), [parse\\_issues\(\)](#), [post\\_issue\\_update\(\)](#), [post\\_issue\(\)](#), [report\\_discussion\(\)](#), [report\\_progress\(\)](#), [viz\\_waterfall\(\)](#)

Other comments: [get\\_issue\\_comments\(\)](#), [report\\_discussion\(\)](#)

## Examples

```
## Not run:
myrepo <- create_repo_ref('emilyriederer', 'myrepo')
comments_res <- get_issue_comments(myrepo, number = 1)
comments <- parse_issue_comments(comments_res)

## End(Not run)
```

---

|                    |                                                  |
|--------------------|--------------------------------------------------|
| parse_issue_events | <i>Parse issue events from get_issues_events</i> |
|--------------------|--------------------------------------------------|

---

## Description

This function convert list output returned by `get` into a dataframe. Due to the diverse fields for different types of events, many fields in the dataframe may be NA.

## Usage

```
parse_issue_events(res)
```

## Arguments

|                  |                                                           |
|------------------|-----------------------------------------------------------|
| <code>res</code> | List returned by corresponding <code>get_</code> function |
|------------------|-----------------------------------------------------------|

## Details

Currently, the following event types are unsupported (with regard to processing all of their fields) due to their additional bulk and limited utility with respect to this packages functionality. Please file an issue if you disagree:

- `(removed_from/moved_columns_in/added_to)_project`: Since this package has limited value with GitHub projects
- `converted_note_to_issue`: Since issue lineage is not a key concern
- `head_ref_(deleted/restored)`: Since future support for pull requests would likely be handled separately
- `merged`: Same justification as `head_ref`
- `review_(requested/dismissed/request_removed)`: Same justification as `head_ref`

## Value

Dataframe with one record / issue-event

## See Also

Other issues: [get\\_issue\\_comments\(\)](#), [get\\_issue\\_events\(\)](#), [get\\_issues\(\)](#), [parse\\_issue\\_comments\(\)](#), [parse\\_issues\(\)](#), [post\\_issue\\_update\(\)](#), [post\\_issue\(\)](#), [report\\_discussion\(\)](#), [report\\_progress\(\)](#), [viz\\_waterfall\(\)](#)

Other events: [get\\_issue\\_events\(\)](#)

## Examples

```
## Not run:
myrepo <- create_repo_ref('emilyriederer', 'myrepo')
events_res <- get_issue_events(myrepo, number = 1)
events <- parse_issue_events(events_res)

## End(Not run)
```

---

|                  |                                             |
|------------------|---------------------------------------------|
| parse_milestones | <i>Parse milestones from get_milestones</i> |
|------------------|---------------------------------------------|

---

## Description

Parse milestones from get\_milestones

## Usage

```
parse_milestones(res)
```

## Arguments

|     |                                              |
|-----|----------------------------------------------|
| res | List returned by corresponding get_ function |
|-----|----------------------------------------------|

## Value

Dataframe with one record / milestone

## See Also

Other milestones: [get\\_milestones\(\)](#), [post\\_milestone\(\)](#)

## Examples

```
## Not run:
myrepo <- create_repo_ref("emilyriederer", "myrepo")
milestones_res <- get_milestones(myrepo)
milestones <- parse_milestones(milestones_res)

## End(Not run)
```

---

|                   |                                          |
|-------------------|------------------------------------------|
| parse_repo_labels | <i>Parse labels from get_repo_labels</i> |
|-------------------|------------------------------------------|

---

**Description**

Parse labels from get\_repo\_labels

**Usage**

```
parse_repo_labels(res)
```

**Arguments**

res                      List returned by corresponding get\_ function

**Value**

Dataframe with one record / label

**See Also**

Other labels: [get\\_repo\\_labels\(\)](#)

**Examples**

```
## Not run:  
labels_res <- get_repo_labels(my_repo)  
labels <- parse_repo_labels(labels_res)  
  
## End(Not run)
```

---

|            |                                        |
|------------|----------------------------------------|
| post_issue | <i>Post issue to GitHub repository</i> |
|------------|----------------------------------------|

---

**Description**

Post issue to GitHub repository

**Usage**

```
post_issue(ref, title, ..., distinct = TRUE)
```

**Arguments**

|          |                                                                                                      |
|----------|------------------------------------------------------------------------------------------------------|
| ref      | Repository reference (list) created by <code>create_repo_ref()</code>                                |
| title    | Issue title (required)                                                                               |
| ...      | Additional user-defined body parameters. Use <code>browse_docs()</code> to learn more.               |
| distinct | Logical value to denote whether issues with the same title as a current open issue should be allowed |

**Value**

Number (identifier) of posted issue

**See Also**

Other issues: [get\\_issue\\_comments\(\)](#), [get\\_issue\\_events\(\)](#), [get\\_issues\(\)](#), [parse\\_issue\\_comments\(\)](#), [parse\\_issue\\_events\(\)](#), [parse\\_issues\(\)](#), [post\\_issue\\_update\(\)](#), [report\\_discussion\(\)](#), [report\\_progress\(\)](#), [viz\\_waterfall\(\)](#)

**Examples**

```
## Not run:
myrepo <- create_repo_ref('emilyriederer', 'myrepo')
post_issue(myrepo,
  title = 'this is the issue title',
  body = 'this is the issue body',
  labels = c('priority:high', 'bug'))

## End(Not run)
## Not run:
# can be used in conjunction with rerex pkg
# example assumes code for rerex is on clipboard
rerex::rerex(venue = "gh")
post_issue(myrepo,
  title = "something is broken",
  body = paste( clipr::read_clip(), collapse = "\n" ) )

## End(Not run)
```

---

|                   |                                                            |
|-------------------|------------------------------------------------------------|
| post_issue_update | <i>Post updates to existing issue in GitHub repository</i> |
|-------------------|------------------------------------------------------------|

---

**Description**

Post updates to existing issue in GitHub repository

**Usage**

```
post_issue_update(ref, issue_number, ...)
```

**Arguments**

|              |                                                                                        |
|--------------|----------------------------------------------------------------------------------------|
| ref          | Repository reference (list) created by <code>create_repo_ref()</code>                  |
| issue_number | Issue number                                                                           |
| ...          | Additional user-defined body parameters. Use <code>browse_docs()</code> to learn more. |

**Value**

Number (identifier) of updated issue

**See Also**

Other issues: [get\\_issue\\_comments\(\)](#), [get\\_issue\\_events\(\)](#), [get\\_issues\(\)](#), [parse\\_issue\\_comments\(\)](#), [parse\\_issue\\_events\(\)](#), [parse\\_issues\(\)](#), [post\\_issue\(\)](#), [report\\_discussion\(\)](#), [report\\_progress\(\)](#), [viz\\_waterfall\(\)](#)

**Examples**

```
## Not run:
myrepo <- create_repo_ref('emilyriederer', 'myrepo')
post_issue_update(myrepo,
  issue_number = 1,
  labels = c('priority:high', 'bug'))

## End(Not run)
```

---

|                |                                            |
|----------------|--------------------------------------------|
| post_milestone | <i>Post milestone to GitHub repository</i> |
|----------------|--------------------------------------------|

---

**Description**

Post milestone to GitHub repository

**Usage**

```
post_milestone(ref, title, ...)
```

**Arguments**

|       |                                                                                        |
|-------|----------------------------------------------------------------------------------------|
| ref   | Repository reference (list) created by <code>create_repo_ref()</code>                  |
| title | Milestone title (required)                                                             |
| ...   | Additional user-defined body parameters. Use <code>browse_docs()</code> to learn more. |

**Value**

Number (identifier) of posted milestone

**See Also**

Other milestones: [get\\_milestones\(\)](#), [parse\\_milestones\(\)](#)

**Examples**

```
## Not run:
myrepo <- create_repo_ref('emilyriederer', 'myrepo')
post_milestone(myrepo,
  title = 'this is the title of the milestone',
  description = 'this is the long and detailed description',
  due_on = '2018-12-31T12:59:59z')

## End(Not run)
```

---

|           |                                                             |
|-----------|-------------------------------------------------------------|
| post_plan | <i>Post plan (milestones + issues) to GitHub repository</i> |
|-----------|-------------------------------------------------------------|

---

**Description**

Post custom plans (i.e. create milestones and issues) based on yaml read in by read\_plan. Please see the "Building Custom Plans" vignette for details.

**Usage**

```
post_plan(ref, plan, distinct = TRUE)
```

**Arguments**

|          |                                                                                                                              |
|----------|------------------------------------------------------------------------------------------------------------------------------|
| ref      | Repository reference (list) created by create_repo_ref()                                                                     |
| plan     | Plan list as read with read_plan()                                                                                           |
| distinct | Logical value to denote whether issues with the same title as a current open issue should be allowed. Passed to get_issues() |

**Value**

Dataframe with numbers (identifiers) of posted milestones and issues and issue title

**See Also**

Other plans and todos: [post\\_todo\(\)](#), [read\\_plan\(\)](#), [read\\_todo\(\)](#), [report\\_plan\(\)](#), [report\\_todo\(\)](#), [template\\_yaml\(\)](#)

## Examples

```
## Not run:
# This example uses example file included in pkg
# You should be able to run example as-is after creating your own repo reference
file_path <- system.file("extdata", "plan.yml", package = "projmgr", mustWork = TRUE)
my_plan <- read_plan(file_path)
post_plan(ref, my_plan)

## End(Not run)
```

---

post\_todo

*Post to-do list (issues) to GitHub repository*

---

## Description

Post custom to-do lists (i.e. issues) based on yaml read in by read\_todo. Please see the "Building Custom Plans" vignette for details.

## Usage

```
post_todo(ref, todo, distinct = TRUE)
```

## Arguments

|          |                                                                                                                              |
|----------|------------------------------------------------------------------------------------------------------------------------------|
| ref      | Repository reference (list) created by create_repo_ref()                                                                     |
| todo     | To-do R list structure as read with read_todo()                                                                              |
| distinct | Logical value to denote whether issues with the same title as a current open issue should be allowed. Passed to get_issues() |

## Details

Currently has know bug in that cannot be used to introduce new labels.

## Value

Number (identifier) of posted issue

## See Also

Other plans and todos: [post\\_plan\(\)](#), [read\\_plan\(\)](#), [read\\_todo\(\)](#), [report\\_plan\(\)](#), [report\\_todo\(\)](#), [template\\_yaml\(\)](#)



**Examples**

```
## Not run:
# This example uses example file included in pkg
# You should be able to run example as-is after creating your own repo reference
file_path <- system.file("extdata", "todo.yml", package = "projmgr", mustWork = TRUE)
my_todo <- read_todo(file_path)
post_todo(ref, my_todo)

## End(Not run)
```

read\_plan

*Read plan from YAML***Description**

This function reads a carefully constructed YAML file representing a project plan (of milestones and issues). YAML is converted into an R list structure which can then be passed to `post_plan()` to build infrastructure for your repository.

**Usage**

```
read_plan(input)
```

**Arguments**

`input` Either filepath to YAML file or character string. Assumes filepath if ends in ".yml" and assumes string otherwise.

**Details**

Please see the "Building Custom Plans" vignette for more details.

**Value**

List containing plan compatible with `post_plan()` or `post_todo()`

**See Also**

Other plans and todos: [post\\_plan\(\)](#), [post\\_todo\(\)](#), [read\\_todo\(\)](#), [report\\_plan\(\)](#), [report\\_todo\(\)](#), [template\\_yaml\(\)](#)

**Examples**

```
## Not run:
# This example uses example file included in pkg
# You should be able to run example as-is after creating your own repo reference
file_path <- system.file("extdata", "plan.yml", package = "projmgr", mustWork = TRUE)
my_plan <- read_plan(file_path)
post_plan(ref, my_plan)
```

```
## End(Not run)
```

---

|           |                                  |
|-----------|----------------------------------|
| read_todo | <i>Read to-do list from YAML</i> |
|-----------|----------------------------------|

---

## Description

This function reads a carefully constructed YAML file representing a to-do list (of issues). YAML is converted into an R list structure which can then be passed to `post_todo()` to build infrastructure for your repository.

## Usage

```
read_todo(input)
```

## Arguments

|       |                                                                                                                     |
|-------|---------------------------------------------------------------------------------------------------------------------|
| input | Either filepath to YAML file or character string. Assumes filepath if ends in ".yaml" and assumes string otherwise. |
|-------|---------------------------------------------------------------------------------------------------------------------|

## Details

Please see the "Building Custom Plans" vignette for more details.

## Value

List containing plan compatible with `post_plan()` or `post_todo()`

## See Also

Other plans and todos: [post\\_plan\(\)](#), [post\\_todo\(\)](#), [read\\_plan\(\)](#), [report\\_plan\(\)](#), [report\\_todo\(\)](#), [template\\_yaml\(\)](#)

## Examples

```
## Not run:
# This example uses example file included in pkg
# You should be able to run example as-is after creating your own repo reference
file_path <- system.file("extdata", "todo.yaml", package = "projmgr", mustWork = TRUE)
my_todo <- read_todo(file_path)
post_todo(ref, my_todo)

## End(Not run)
```

---

|                   |                                                       |
|-------------------|-------------------------------------------------------|
| report_discussion | <i>Print issue comments in RMarkdown friendly way</i> |
|-------------------|-------------------------------------------------------|

---

## Description

Interprets dataframe or tibble of issues by breaking apart milestones and listing each issue title as open or closed, and uses HTML to format results in a highly readable and attractive way. Resulting object returned is a character vector of HTML code with the added class of 'knit\_asis' so that when included in an RMarkdown document knitting to HTML, the results will be correctly rendered as HTML.

## Usage

```
report_discussion(comments, issue = NA, link_url = TRUE)
```

## Arguments

|          |                                                                                                                                                                                              |
|----------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| comments | Dataframe or tibble of comments for a single issue, as returned by <code>get_issue_comments()</code>                                                                                         |
| issue    | Optional dataframe or tibble of issues, as returned by <code>get_issues()</code> . If provided, output includes issue-level data such as the title, initial description, creation date, etc. |
| link_url | Boolean. Whether or not to provide link to each item, as provided by <code>url</code> column in dataset                                                                                      |

## Details

HTML output is wrapped in a `<div>` of class 'report\_discussion' for custom CSS styling.

## Value

Returns character string of HTML with class attribute to be correctly shown "as-is" in RMarkdown

## See Also

Other issues: [get\\_issue\\_comments\(\)](#), [get\\_issue\\_events\(\)](#), [get\\_issues\(\)](#), [parse\\_issue\\_comments\(\)](#), [parse\\_issue\\_events\(\)](#), [parse\\_issues\(\)](#), [post\\_issue\\_update\(\)](#), [post\\_issue\(\)](#), [report\\_progress\(\)](#), [viz\\_waterfall\(\)](#)

Other comments: [get\\_issue\\_comments\(\)](#), [parse\\_issue\\_comments\(\)](#)

## Examples

```
## Not run:
# the following could be run in RMarkdown
repo <- create_repo_ref("emilyriederer", "projmgr")
issue <- get_issues(repo, number = 15)
issue_df <- parse_issues(issue)
comments <- get_issue_comments(repo, number = 15)
```

```

comments_df <- parse_issue_comments(comments)
report_discussion(issue_df, comments_df)

## End(Not run)

```

---

|             |                                             |
|-------------|---------------------------------------------|
| report_plan | <i>Print plan in RMarkdown friendly way</i> |
|-------------|---------------------------------------------|

---

## Description

Interprets list representation of plan, using HTML to format results in a highly readable and attractive way. Resulting object returned is a character vector of HTML code with the added class of 'knit\_asis' so that when included in an RMarkdown document knitting to HTML, the results will be correctly rendered as HTML.

## Usage

```
report_plan(plan, show_ratio = TRUE)
```

## Arguments

|            |                                                                                              |
|------------|----------------------------------------------------------------------------------------------|
| plan       | List of project plan, as returned by read_plan()                                             |
| show_ratio | Boolean. Whether or not to report (# Closed Items / # Total Items) for each group as a ratio |

## Details

The resulting HTML unordered list (<ul>) is tagged with class 'report\_plan' for custom CSS styling.

## Value

Returns character string of HTML with class attribute to be correctly shown "as-is" in RMarkdown

## See Also

Other plans and todos: [post\\_plan\(\)](#), [post\\_todo\(\)](#), [read\\_plan\(\)](#), [read\\_todo\(\)](#), [report\\_todo\(\)](#), [template\\_yaml\(\)](#)

## Examples

```

## Not run:
# the following could be run in RMarkdown
plan_path <- system.file("extdata", "plan-ex.yml", package = "projmgr", mustWork = TRUE)
my_plan <- read_plan(plan_path)
report_plan(my_plan)

## End(Not run)

```

---

report\_progress*Print issue-milestone progress in RMarkdown friendly way*

---

## Description

Interprets dataframe or tibble of items (e.g. issues) by breaking apart groups (e.g. milestones), listing each item title as open or closed, and using HTML to format results in a highly readable and attractive way. Resulting object returned is a character vector of HTML code with the added class of 'knit\_asis' so that when included in an RMarkdown document knitting to HTML, the results will be correctly rendered as HTML.

## Usage

```
report_progress(  
  issues,  
  group_var = "milestone_title",  
  link_url = TRUE,  
  show_ratio = TRUE,  
  show_pct = TRUE  
)
```

## Arguments

|            |                                                                                                                        |
|------------|------------------------------------------------------------------------------------------------------------------------|
| issues     | Dataframe or tibble of issues and milestones, as returned by <code>get_issues()</code> and <code>parse_issues()</code> |
| group_var  | Character string variable name by which to group issues. Defaults to "milestone_title"                                 |
| link_url   | Boolean. Whether or not to provide link to each item, as provided by <code>url</code> column in dataset                |
| show_ratio | Boolean. Whether or not to report (# Closed Items / # Total Items) for each group as a ratio                           |
| show_pct   | Boolean. Whether or not to report (# Closed Items / # Total Items) for each group as a percent                         |

## Details

The resulting HTML unordered list (<ul>) is tagged with class 'report\_progress' for custom CSS styling.

Items without a related group are put into an "Ungrouped" category. Filter these out before using this function if you wish to only show items that are in a group.

## Value

Returns character string of HTML with class attribute to be correctly shown "as-is" in RMarkdown

**See Also**

Other issues: [get\\_issue\\_comments\(\)](#), [get\\_issue\\_events\(\)](#), [get\\_issues\(\)](#), [parse\\_issue\\_comments\(\)](#), [parse\\_issue\\_events\(\)](#), [parse\\_issues\(\)](#), [post\\_issue\\_update\(\)](#), [post\\_issue\(\)](#), [report\\_discussion\(\)](#), [viz\\_waterfall\(\)](#)

**Examples**

```
## Not run:
repo <- create_repo_ref("emilyriederer", "projmgr")
issues <- get_issues(repo, state = 'all')
issues_df <- parse_issues(issues)
report_progress(issues_df)

## End(Not run)
```

---

|                  |                                                    |
|------------------|----------------------------------------------------|
| report_taskboard | <i>Report HTML-based task board of item status</i> |
|------------------|----------------------------------------------------|

---

**Description**

Produces three column task board showing any relevant objects (typically issues or milestones) as "Not Started", "In Progress", or "Done".

**Usage**

```
report_taskboard(
  data,
  in_progress_when,
  include_link = FALSE,
  hover = FALSE,
  colors = c("#f0e442", "#56b4e9", "#009e73")
)
```

**Arguments**

|                  |                                                                                                                                                              |
|------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------|
| data             | Dataset, such as those representing issues or milestones (i.e. from <code>parse_issues()</code> ). Must have state variable.                                 |
| in_progress_when | Function with parameter data that returns Boolean vector. Generally, one of the taskboard helper functions. See <code>?taskboard_helpers</code> for details. |
| include_link     | Boolean whether or not to include links back to GitHub                                                                                                       |
| hover            | Boolean whether or not tasks should be animated to slightly enlarge on hover                                                                                 |
| colors           | Character vector of hex colors for not started, in progress, and complete tasks (respectively)                                                               |

## Details

The following logic is used to determine the status of each issue:

- Done: Items with a state of "closed"
- In Progress: Custom logic via `in_progress_when`. See `?taskboard_helpers` for details.
- Not Started: Default case for items neither In Progress or Closed

## Value

Returns character string of HTML/CSS with class attribute to be correctly shown "as-is" in RMarkdown

## Examples

```
## Not run:
# in RMarkdown
```{r}
issues <- get_issues(myrepo, milestone = 1)
issues_df <- parse_issues(issues)
report_taskboard(issues_df, in_progress_when = is_labeled_with('in-progress'))
```

## End(Not run)
```

---

report\_todo

---

*Print to-do lists in RMarkdown friendly way*


---

## Description

Interprets list representation of to-do list, using HTML to format results in a highly readable and attractive way. Resulting object returned is a character vector of HTML code with the added class of 'knit\_asis' so that when included in an RMarkdown document knitting to HTML, the results will be correctly rendered as HTML.

## Usage

```
report_todo(todo, show_ratio = TRUE)
```

## Arguments

|                         |                                                                                              |
|-------------------------|----------------------------------------------------------------------------------------------|
| <code>todo</code>       | List of to-do list, as returned by <code>read_todo()</code>                                  |
| <code>show_ratio</code> | Boolean. Whether or not to report (# Closed Items / # Total Items) for each group as a ratio |

## Details

The resulting HTML unordered list (<ul>) is tagged with class 'report\_todo' for custom CSS styling.

**Value**

Returns character string of HTML with class attribute to be correctly shown "as-is" in RMarkdown

**See Also**

Other plans and todos: [post\\_plan\(\)](#), [post\\_todo\(\)](#), [read\\_plan\(\)](#), [read\\_todo\(\)](#), [report\\_plan\(\)](#), [template\\_yaml\(\)](#)

**Examples**

```
## Not run:
# the following could be run in RMarkdown
todo_path <- system.file("extdata", "todo-ex.yml", package = "projmgr", mustWork = TRUE)
my_todo <- read_todo(todo_path)
report_todo(my_todo)

## End(Not run)
```

---

taskboard\_helpers

*Tag "in-progress" items for taskboard visualization*


---

**Description**

The `viz_taskboard()` function creates a three-column layout of entities that are not started, in progress, or done. Objects are classified as done when they have a state of "closed". Object are classified as "To-Do" when they are neither "Closed" or "In Progress". However, what constistutes "In Progress" is user and project dependent. Thus, these functions let users specify what they mean.

**Usage**

```
is_labeled()

is_labeled_with(label, any = TRUE)

is_assigned()

is_assigned_to(login, any = TRUE)

is_in_a_milestone()

is_in_milestone(number)

is_created_before(created_date)

is_part_closed()

is_due()
```



```
is_due_before(due_date)
```

```
has_n_commits(events, n = 1)
```

### Arguments

|              |                                                                                                                                                |
|--------------|------------------------------------------------------------------------------------------------------------------------------------------------|
| label        | Label name(s) as character vector                                                                                                              |
| any          | When the supplied vector has more than one value, should the result return TRUE if any of those values are present in the dataset (logical OR) |
| login        | User login(s) as character vector                                                                                                              |
| number       | Milestone number                                                                                                                               |
| created_date | Date as character in "YYYY-MM-DD" format                                                                                                       |
| due_date     | Date as character in "YYYY-MM-DD" format                                                                                                       |
| events       | Dataframe containing events for each issue in data                                                                                             |
| n            | Minimum of commits required to be considered in progress                                                                                       |

### Details

General options:

- `is_created_before`: Was created before a user-specified data (as "YYYY-MM-DD" character string)

Issue-specific options:

- `is_labeled_with`: User-specified label (as character string) exists
- `is_assigned`: Has been assigned to anyone
- `is_assigned_to`: Has been assigned to specific user-specified login (as character string)
- `is_in_a_milestone`: Has been put into any milestone
- `is_in_milestone`: Has been put into a specific milestone

Milestone-specific options:

- `is_part_closed`: Has any of its issues closed
- `is_due`: Has a due date
- `is_due_before`: Has a due data by or before a user-specified date (as "YYYY-MM-DD" character string)

### Value

Function to be passed as `in_progress_when` argument in `viz_taskboard()`

**Examples**

```
## Not run:
viz_taskboard(issues, in_progress_when = is_labeled_with('in-progress'))
viz_taskboard(milestones, in_progress_when = is_created_before('2018-12-31'))
viz_taskboard(issues, in_progress_when = is_in_milestone())
report_taskboard(issues, in_progress_when = is_labeled_with('in-progress'))
report_taskboard(milestones, in_progress_when = is_created_before('2018-12-31'))
report_taskboard(issues, in_progress_when = is_in_milestone())

## End(Not run)
```

---

template\_yaml

---

*Print YAML template to console*


---

**Description**

Prints YAML templates for either a plan or to-do list to the console as an example for developing your own custom plans and to-do lists. Inspired by similar `template_` functions included in the `pkgdown` package.

**Usage**

```
template_yaml(template = c("plan", "todo"))
```

**Arguments**

template            One of "plan" or "todo" denoting template desired

**Details**

Note that depending on the console, text editor, and settings you are using, the template may or may not preserve the necessary whitespace shown in the output. If you copy-paste the template for modification, ensure that it still adheres to traditional YAML indentation.

**Value**

Prints template to console

**See Also**

Other plans and todos: [post\\_plan\(\)](#), [post\\_todo\(\)](#), [read\\_plan\(\)](#), [read\\_todo\(\)](#), [report\\_plan\(\)](#), [report\\_todo\(\)](#)

**Examples**

```
template_yaml('plan')
template_yaml('todo')
```

---

|           |                                                                            |
|-----------|----------------------------------------------------------------------------|
| viz_gantt | <i>Visualize Gantt-style chart of planned or actual time to completion</i> |
|-----------|----------------------------------------------------------------------------|

---

### Description

Produces plot with one vertical bar from the specified start variable's value to the end variable's value. Common uses would be to visualize time-to-completion for issues gotten by (`get_issues` and `parse_issues`) or milestones. Bars are colored by duration with longer bars as a darker shade of blue, and start/completion is denoted by points at the ends of the bars.

### Usage

```
viz_gantt(data, start = "created_at", end = "closed_at", str_wrap_width = 30)
```

### Arguments

|                             |                                                                                                                                                                                                             |
|-----------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <code>data</code>           | Dataset, such as those representing issues or milestones (i.e. <code>parse_issues()</code> or <code>parse_milestones()</code> ). Must have unique title variable and variables to specify for start and end |
| <code>start</code>          | Unquoted variable name denoting issue start date                                                                                                                                                            |
| <code>end</code>            | Unquoted variable name denoting issue end date                                                                                                                                                              |
| <code>str_wrap_width</code> | Number of characters before text of issue title begins to wrap                                                                                                                                              |

### Details

By default, the start date is the issue's `created_at` date, and the end date is the issue's `closed_at` date. However, either of these can be altered via the `start` and `end` parameters since these dates might not be reflective of the true timeframe (e.g. if issues are posted well in advance of work beginning.)

Unfinished tasks (where the value of the end variable is NA) are colored grey and do not have dots on their bars. Unstarted tasks are dropped because user intent is ambiguous in that case.

### Value

ggplot object

### See Also

`viz_linked`

### Examples

```
## Not run:
issues <- get_issues(myrepo, state = "closed")
issues_df <- parse_issues(issues)
viz_gantt(issues_df)

## End(Not run)
```

---

|               |                                                        |
|---------------|--------------------------------------------------------|
| viz_taskboard | <i>Visualize Agile-style task board of item status</i> |
|---------------|--------------------------------------------------------|

---

### Description

Produces three column task board showing any relevant objects (typically issues or milestones) as "Not Started", "In Progress", or "Done".

### Usage

```
viz_taskboard(data, in_progress_when, str_wrap_width = 30, text_size = 3)
```

### Arguments

|                  |                                                                                                                                                              |
|------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------|
| data             | Dataset, such as those representing issues or milestones (i.e. from <code>parse_issues()</code> ). Must have state variable.                                 |
| in_progress_when | Function with parameter data that returns Boolean vector. Generally, one of the taskboard helper functions. See <code>?taskboard_helpers</code> for details. |
| str_wrap_width   | Number of characters before text of issue title begins to wrap                                                                                               |
| text_size        | Text size                                                                                                                                                    |

### Details

The following logic is used to determine the status of each issue:

- Done: Items with a state of "closed"
- In Progress: Custom logic via `in_progress_when`. See `?taskboard_helpers` for details.
- Not Started: Default case for items neither In Progress or Closed

### Value

ggplot object

### See Also

`viz_linked`

### Examples

```
## Not run:
issues <- get_issues(myrepo, milestone = 1)
issues_df <- parse_issues(issues)
viz_taskboard(issues_df, in_progress_when = is_labeled_with('in-progress'))
viz_taskboard(issues_df, in_progress_when = is_in_a_milestone())

## End(Not run)
```

---

|               |                                                                                 |
|---------------|---------------------------------------------------------------------------------|
| viz_waterfall | <i>Visualize waterfall of opened, closed, and pending items over time-frame</i> |
|---------------|---------------------------------------------------------------------------------|

---

## Description

Creates a four-bar waterfall diagram. Within the specified timeframe, shows initial, newly opened, newly closed, and final open counts. Works with either issues or milestones, as obtained by the get and parse functions.

## Usage

```
viz_waterfall(  
  data,  
  start_date,  
  end_date,  
  start = "created_at",  
  end = "closed_at"  
)
```

## Arguments

|            |                                                                                                                                                                           |
|------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| data       | Dataset, such as those representing issues or milestones (i.e. parse_issues() or parse_milestones()). Must have state variable and variables to specify for start and end |
| start_date | Character string in 'YYYY-MM-DD' form for first date to be considered (inclusive)                                                                                         |
| end_date   | Character string in 'YYYY-MM-DD' form for last date to be considered (inclusive)                                                                                          |
| start      | Unquoted variable name denoting issue start date                                                                                                                          |
| end        | Unquoted variable name denoting issue end date                                                                                                                            |

## Details

The following logic is used to classify issues:

- Initial: `start < start_date` and `(end > start_date or state == 'open')`
- Open: `start >= start_date` and `start <= end_date`
- Closed: `end >= start_date` and `end <= end_date`
- Final: `start < end_date` and `(end > end_date or state == 'open')`

The exact accuracy of the logic depends on filtering that has already been done to the dataset. Think carefully about the population you wish to represent when getting your data.

**Value**

ggplot object

**See Also**

Other issues: [get\\_issue\\_comments\(\)](#), [get\\_issue\\_events\(\)](#), [get\\_issues\(\)](#), [parse\\_issue\\_comments\(\)](#), [parse\\_issue\\_events\(\)](#), [parse\\_issues\(\)](#), [post\\_issue\\_update\(\)](#), [post\\_issue\(\)](#), [report\\_discussion\(\)](#), [report\\_progress\(\)](#)

**Examples**

```
## Not run:  
viz_waterfall(milestones, '2017-01-01', '2017-03-31')  
  
## End(Not run)
```

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