

# Package ‘RGeckoboard’

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**Title** R API for Geckoboard

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**Depends** R (>= 3.2.0)

**Description** Provides an interface to Geckoboard.

**Imports** jsonlite, httr

**License** MIT + file LICENSE

**URL** <https://github.com/ploner/RGeckoboard>, <https://www.geckoboard.com>

**NeedsCompilation** no

**Repository** CRAN

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## R topics documented:

RGeckoboard-package	2
geckoCreateAccount	3
geckoCustomWidgetUpdate	4
geckoDatasetCreate	5
geckoDatasetRemove	6
geckoDatasetReplace	6
geckoImagePrepare	7
geckoImageSave	8
<b>Index</b>	<b>9</b>

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RGeckoboard-package    *R API for Geckoboard*

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## Description

Provides an interface to Geckoboard.

## Details

The DESCRIPTION file:

```

Package:      RGeckoboard
Version:      0.1-5
Date:         2018-07-10
Title:        R API for Geckoboard
Authors@R:    c( person("Meinhard", "Ploner", role=c("aut", "cre", "cph"), email="meinhard.ploner@gmail.com"), person("D
Author:       Meinhard Ploner [aut, cre, cph], Daimler AG [cph], GKN Sinter Metals GmbH [cph]
Maintainer:   Meinhard Ploner <meinhard.ploner@gmail.com>
Depends:      R (>= 3.2.0)
Description:  Provides an interface to Geckoboard.
Imports:      jsonlite, httr
License:      MIT + file LICENSE
URL:          https://github.com/ploner/RGeckoboard, https://www.geckoboard.com

```

Index of help topics:

RGeckoboard-package	R API for Geckoboard
geckoCreateAccount	Create Geckoboard Account
geckoCustomWidgetUpdate	Update or Create a Custom Widget
geckoDatasetCreate	Create a Dataset to be used on Geckoboard
geckoDatasetRemove	Remove a Dataset from Geckoboard
geckoDatasetReplace	Replace the data of a Geckoboard Dataset
geckoImagePrepare	Helper function to get an image prepared for Geckoboard Image
geckoImageSave	Helper function to get an image created for Geckoboard Image

The package provides easy access to the Geckoboard API from R.

## Author(s)

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 Meinhard Ploner <meinhard.ploner@gmail.com>

## References

<https://www.geckoboard.com>

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geckoCreateAccount      *Create Geckoboard Account*

---

## Description

Create object holding meta data of a Geckoboard project.

## Usage

```
geckoCreateAccount(name, key)
```

## Arguments

name	Can be arbitrary.
key	API key of Geckoboard project.

## Value

An object holding all the values specified as parameters.

## Author(s)

Meinhard Ploner

## See Also

[geckoDatasetCreate](#)

## Examples

```
## Not run:  
## Fill in here the API key found on  
## https://www.geckoboard.com -> 'top-right' -> Account -> API Key.  
account = geckoboardCreateAccount("ProjectName", key="553c55...")  
class(account)  
  
## End(Not run)
```

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 geckoCustomWidgetUpdate

*Update or Create a Custom Widget*


---

## Description

Update the data of a Custom Widget by Push methodology. If not existing, create a new one. If x axis values are of class Date, x axis format is auto-adjusted therefore.

## Usage

```
geckoCustomWidgetUpdate(widgetType="barchart", data, apiKey, widgetKey,
  verbose=FALSE)
```

## Arguments

widgetType	Chart Type, see <a href="https://developer-custom.geckoboard.com/#custom-widget-types">https://developer-custom.geckoboard.com/#custom-widget-types</a> .
data	For "barchart" a list with the following elements (mostly optional): <b>y</b> data.frame w/ 1 column per series. N rows. <b>y.format</b> Optional. "decimal", "percent" or "currency". Defaults to "decimal". <b>y.unit</b> Optional. For currencied "GBP", "USD" or "EUR". <b>x</b> Optional. Vector of length N with bar labels. For "geckometer" a list with the following elements: <b>current</b> Current value. Numeric. <b>min</b> Min (left) value. Numeric. <b>max</b> Max (right) value. Numeric. <b>format</b> Optional. "percent" or "currency". Defaults is "decimal". <b>unit</b> Optional. For currencied "GBP", "USD" or "EUR".
apiKey	API key.
widgetKey	Widget Key, see <a href="https://developer-custom.geckoboard.com/#pushing-to-your-widget">https://developer-custom.geckoboard.com/#pushing-to-your-widget</a> .
verbose	If TRUE, API response if printed.

## Value

Nothing is returned.

## Author(s)

Meinhard Ploner

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geckoDatasetCreate      *Create a Dataset to be used on Geckoboard*

---

## Description

Create a Dataset to be used on Geckoboard.

## Usage

```
geckoDatasetCreate(df, apiKey, dataset="dummy.by_day", types,
  verbose = FALSE, optional=(types == "number"))
```

## Arguments

df	Data frame. Only column names are used during dataset creation.
apiKey	API key.
dataset	Name the Geckoboard dataset should get, e.g. name.by_day.
types	Either "date", "datetime", "number", "percentage" (between 0 and 1), "string" or "money".
verbose	If TRUE, API response if printed.
optional	Usually numeric fields are optional. Can be modified.

## Value

Nothing is returned.

## Author(s)

Meinhard Ploner

## Examples

```
## Not run:
data = data.frame(
  date=c("2018-03-01", "2018-03-02", "2018-03-03", "2018-03-04"),
  KPI1=c(77, 78.1, 79, NA),
  KPI2=c(78, 90, 91.2, 92)
)
datasetName = "kpi.by_day"
types = c("date", "number", "number")
geckoDatasetCreate(data, account$apiKey, datasetName, types)
geckoDatasetReplace(data, account$apiKey, datasetName, types)

## End(Not run)
```

---

geckoDatasetRemove     *Remove a Dataset from Geckoboard*

---

### Description

Remove a Dataset from the Geckoboard server.

### Usage

```
geckoDatasetRemove(apiKey, dataset="dummy.by_day", verbose=FALSE)
```

### Arguments

apiKey	API key.
dataset	Name of an existing Geckoboard dataset.
verbose	If TRUE, API response if printed.

### Value

Nothing is returned.

### Author(s)

Meinhard Ploner

---

geckoDatasetReplace     *Replace the data of a Geckoboard Dataset*

---

### Description

Replace all the data of a Dataset to be used on Geckoboard.

### Usage

```
geckoDatasetReplace(df, apiKey, dataset="dummy.by_day", types, verbose=FALSE)
```

### Arguments

df	Data frame.
apiKey	API key.
dataset	Name of an existing Geckoboard dataset.
types	Either "date", "datetime", "number", "percentage" (between 0 and 1), "string" or "money".
verbose	If TRUE, API response if printed.

**Value**

Nothing is returned.

**Author(s)**

Meinhard Ploner

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geckoImagePrepare      *Helper function to get an image prepared for Geckoboard Image*

---

**Description**

Helper function to get an image prepared for Geckoboard Image. Call this before creating a plot using e.g. plot or ggplot.

**Usage**

```
geckoImagePrepare(filePath, size = "1x1", retina = FALSE, device = jpeg,
                  adjustTitleRow = FALSE, quality = 100, ...)
```

**Arguments**

filePath	Full file path.
size	Size in Geckoboard grid lines.
retina	TRUE if resolution should be twice as standard.
device	Graphics Device used. Available: PNG or JPEG.
adjustTitleRow	Should image be smaller for a title row?
quality	For JPEG.
...	Additional parameters to the device function.

**Value**

Nothing is returned.

**Author(s)**

Meinhard Ploner

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`geckoImageSave`*Helper function to get an image created for Geckoboard Image*

---

**Description**

Helper function to get an image created for Geckoboard Image. Call this *after* creating a plot using e.g. `plot` or `ggplot`.

**Usage**

```
geckoImageSave()
```

**Value**

Nothing is returned.

**Author(s)**

Meinhard Ploner



# Index

- \*Topic **API**
    - RGeckoboard-package, 2
  - \*Topic **Geckoboard**
    - RGeckoboard-package, 2
  - \*Topic **account**
    - geckoCreateAccount, 3
  - \*Topic **customwidget**
    - geckoCustomWidgetUpdate, 4
  - \*Topic **dashboard**
    - RGeckoboard-package, 2
  - \*Topic **dataset**
    - geckoDatasetCreate, 5
    - geckoDatasetRemove, 6
    - geckoDatasetReplace, 6
  - \*Topic **geckoboard**
    - geckoCreateAccount, 3
    - geckoCustomWidgetUpdate, 4
    - geckoDatasetCreate, 5
    - geckoDatasetRemove, 6
    - geckoDatasetReplace, 6
    - geckoImagePrepare, 7
    - geckoImageSave, 8
  - \*Topic **image**
    - geckoImagePrepare, 7
    - geckoImageSave, 8
  - \*Topic **package**
    - RGeckoboard-package, 2
  - \*Topic **widget**
    - geckoCustomWidgetUpdate, 4
- geckoCreateAccount, 3  
geckoCustomWidgetUpdate, 4  
geckoDatasetCreate, 3, 5  
geckoDatasetRemove, 6  
geckoDatasetReplace, 6  
geckoImagePrepare, 7  
geckoImageSave, 8
- RGeckoboard (RGeckoboard-package), 2  
RGeckoboard-package, 2