

# Package: gradeR (via r-universe)

November 20, 2024

**Title** Helps Grade Assignment Submissions that are R Scripts

**Version** 1.0.10

**Description** After being given the location of your students' submissions and a test file, the function runs each .R file, and evaluates the results from all the given tests. Results are neatly returned in a data frame that has a row for each student, and a column for each test.

**Depends** R (>= 3.4)

**License** MIT + file LICENSE

**Encoding** UTF-8

**RoxygenNote** 7.1.1

**Imports** testthat, methods, callr, jsonlite

**Suggests** knitr, rmarkdown

**VignetteBuilder** knitr

**Config/pak/sysreqs** make

**Repository** <https://tbrown122387.r-universe.dev>

**RemoteUrl** <https://github.com/tbrown122387/grader>

**RemoteRef** HEAD

**RemoteSha** ae9510a4d3178274b1236e69da065f86e793e9db

## Contents

calcGrades . . . . .	2
calcGradesForGradescope . . . . .	2
findBadEncodingFiles . . . . .	3
findGlobalPaths . . . . .	4
<b>Index</b>	<b>5</b>

---

`calcGrades`*The grading function.*

---

**Description**

This function grades a bunch of R script assignments

**Usage**

```
calcGrades(  
  submission_dir,  
  your_test_file,  
  suppress_warnings = TRUE,  
  verbose = FALSE  
)
```

**Arguments**

`submission_dir` where the assignments are located

`your_test_file` the path to your testthat test file (e.g. `grade_hw1.R`)

`suppress_warnings`

warning handlers prevent code from being run after they catch something. Suppress this behavior by setting this argument to `TRUE`.

`verbose` set to true if you want to print the name of the file as it's being ran

**Examples**

```
# change paths to *your* paths  
submissions <- "extdata/example/assignment1_submissions/"  
my_test_file <- system.file("extdata/example", "grade_hw1.R", package = "gradeR")  
results <- calcGrades(submissions, my_test_file)
```

---

`calcGradesForGradescope`*The grading function for Gradescope.*

---

**Description**

This function grades one R script assignment submission and writes results out to a properly-formatted json file for Gradescope.

**Usage**

```
calcGradesForGradescope(  
  submission_file,  
  test_file,  
  which_results = "gradescope",  
  suppress_warnings = TRUE  
)
```

**Arguments**

submission\_file      the name of the assignment submission file (e.g. "hw1.r")

test\_file            the name of the .r file with test\_that tests (e.g. "hw1\_tests.R")

which\_results      Choose either "testing" or "gradescope" If equal to "gradescope" then the json file is written out to the directory that Gradescope expects. Otherwise, results.json is written to your current working directory.

suppress\_warnings    If FALSE, warnings are fatal; if set to TRUE, then warnings will not prematurely terminate running of student submission scripts.

---

findBadEncodingFiles    *This function finds unreadable files.*

---

**Description**

A function that finds student submissions with poorly encoded characters

**Usage**

```
findBadEncodingFiles(submission_dir)
```

**Arguments**

submission\_dir    where the assignments are located

**Examples**

```
# change paths to *your* paths  
submissions <- "extdata/assignment1_submissions/"  
findBadEncodingFiles(submissions) # perhaps ask these students to resubmit
```

---

findGlobalPaths      *This function finds files with global file paths.*

---

**Description**

A function that finds student submissions that refer to machine-specific file paths

**Usage**

```
findGlobalPaths(submission_dir)
```

**Arguments**

submission\_dir where the assignments are located

**Examples**

```
# change paths to *your* paths
submissions <- "extdata/assignment1-submissions/"
findGlobalPaths(submissions) # perhaps ask these students to resubmit
```

# Index

- \* **Gradescope**
    - calcGradesForGradescope, 2
  - \* **calcGradesForGradescope**
    - calcGradesForGradescope, 2
  - \* **calcGrades**
    - calcGrades, 2
    - findBadEncodingFiles, 3
    - findGlobalPaths, 4
  - \* **findBadEncodingFiles**
    - findBadEncodingFiles, 3
  - \* **findGlobalPaths**
    - findGlobalPaths, 4
- calcGrades, 2
- calcGradesForGradescope, 2
- findBadEncodingFiles, 3
- findGlobalPaths, 4