Package 'mccoursepack'

September 24, 2025

Type Package

Title Course Materials and Weekly Scaffolds for MC 451 and MC 501

Version 01.06.02

Description Provides student-facing scaffolds (Quarto templates and starter files)
for weekly work in MC 451 and MC 501. Students install or update the package
and use helper functions to copy the appropriate week's materials into a
local working directory.

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Encoding UTF-8

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Depends R (>= 4.0)

Imports cli,
fs,
pak,
pkgbuild,
quarto,
rlang,
rstudioapi,
tinytex

Config/Needs/website github::SIM-Lab-SIUE/mccoursepack

Suggests testthat (>= 3.0.0),
withr

Config/testthat/edition 3

Contents

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download_journal   *Download a course's journal scaffold to a local folder*

Description

Copies the journal scaffold for `course` into `dest`, preserving subfolders. Supports both package layouts:

- inst/courses//journal/
- inst/extdata/courses//journal/

Usage

```
download_journal(course, dest = ".", package = "mccoursepack")
```

Arguments

course	Character scalar. e.g., "mc451" or "mc501".
dest	Destination directory (default "." = current working dir).
package	Package name that contains the scaffolds (default "mccoursepack").

Value

(invisibly) a character vector of written file paths.

---

download_week   *Download a week's template into a destination directory*

Description

Copies the installed files for a given `course` and week into a subfolder named `week_XX` inside `dest`. If the week template is empty (e.g., holiday weeks), it still creates the `week_XX` folder and copies nothing.

Usage

```
download_week(course, week = NULL, dest = ".")
```

Arguments

course	Course name (e.g., "mc451", "mc501"). For back-compat you may pass only week as the first argument if exactly one course is installed.
week	Integer or string like "01" or "week_01".
dest	Destination directory (created if needed). Defaults to current dir.

Details

Backward compatibility: if you call `download_week(1, dest)`, it assumes there is a single installed course and uses it. If multiple courses exist, you must supply the `course` argument.

Value

(invisibly) a list with dest (the created week folder), course, week, and n_copied.

Examples

```
## Not run:
# Use a temporary folder in examples/checks (portable on Windows)
d <- tempdir()
download_week("mc451", 1, dest = d)  # creates d/week_01/...

## End(Not run)
```

---

list_courses   *List available courses (if present) or week templates*

Description

If your package organizes templates by course (e.g., `inst/templates/mc451/week01`), this returns the list of course directories (e.g., `mc451`, `mc501`). If not, it returns an empty character vector.

Usage

```
list_courses()

list_courses()
```

Value

A character vector of course directory names found under `inst/templates`.

A character vector of course names (e.g., "mc451", "mc501").

Examples

```
list_courses()
list_courses()
```

---

list_weeks   *List available week templates*

Description

Lists installed week directories of the form week01, week02, ... If you pass a course name that exists under `inst/templates/<course>/weekXX`, it lists the weeks for that course. If course is NULL (default), it looks directly under `inst/templates/`.

If course is supplied, returns the **directory names** ("week_01", "week_02", ...). If course is NULL, aggregates across courses and returns unique week dir names.

Usage

```
list_weeks(course = NULL)

list_weeks(course = NULL)
```

Arguments

course   Optional course directory name (e.g., "mc451", "mc501").

Value

A character vector of available weeks like ″01″, ″02″, . . . (no prefix).

A character vector like "week_01", "week_02", ...

Examples

```
list_weeks()
list_weeks(″mc451″)
# Aggregate across courses (safe in examples):
list_weeks()
# For a specific course (if installed):

list_weeks(″mc451″)
```

---

mccourse_self_test   *Quick environment self-test*

Description

Checks that installed templates are discoverable and reports available weeks. Returns TRUE invisibly on success.

Usage

```
mccourse_self_test()

mccourse_self_test()
```

Value

TRUE (invisibly) if templates are discoverable; otherwise, an error.

Examples

```
mccourse_self_test()
```

---

mccourse_setup *One-time setup for mccoursepack*

Description

Installs Quarto CLI (via the **quarto** R package) and TinyTeX if missing, then ensures a small set of core CRAN packages are available. On Windows, warns if Rtools is not installed.

Usage

```
mccourse_setup()
```

Details

Safe to re-run; it only installs what's missing.

---

mccourse_update *Update mccoursepack to the latest version (CRAN or GitHub)*

Description

This helper checks whether a newer version of mccoursepack is available and, if so, can prompt to update (interactive) or return quietly (non-interactive).

Usage

```
mccourse_update(
  update = c("ask", "always", "never"),
  source = c("auto", "CRAN", "GitHub"),
  repo = getOption("mccoursepack.repo", NULL),
  quiet = FALSE
)
```

Arguments

update	"ask" (default), "always", or "never"
source	"auto", "CRAN", or "GitHub"
repo	GitHub "owner/repo" string if using GitHub (defaults to getOption("mccoursepack.repo"))
quiet	logical; reduce messages (useful when calling inside other helpers)

Details

Configure the source with:

- `options(mccoursepack.repo = "owner/mccoursepack")` for GitHub
- or install from CRAN if the package is published there.

To enable auto-checks before pulls: `options(mccoursepack.auto_update = TRUE)` or set env var MCCOURSEPACK_AUTO_UPDATE=1.

Value

logical indicating whether an update was performed

---

open_week   *Open a downloaded week's folder in your system file browser*

Description

Convenience helper: after you've used `download_week()` to create a local folder (e.g., `./week_01`), this opens that folder in your default file browser.

Usage

```
open_week(week, dest = ".")
```

Arguments

week   Integer or string like "01".

dest   Parent directory where the week folder resides. Defaults to `.`.

Value

Invisibly, the opened path.

Examples

```
download_week("mc451", 1, ".")
open_week(1, ".")
```

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