

# The afterpack Package

## Personal settings and preferences

### Version 1.0b

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#### Abstract

This bundle includes a personal pre-configuration package, which (selectively) loads package sets with the author pre-defined package options.

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## 1 Introduction

This is what is left from “my personal packages”. I started, a few years ago (2022), to untangle the many personal packs/hacks that I was using, documenting them and publishing them at CTAN, and, finally, after almost 3 years (2025), this is what is left: Just an auxiliary package that pre-loads the packages I use the most, and define one single (well two) command(s). So, now, when I share a  $\LaTeX$  file with a colleague, he/she won’t come back asking me how to compile it (because they lack “my hacks”).

## 2 Package Options

- showframe* For geometry/format “proofing”. This will just load the *showframe* package.
- showlabels* For labels placement/location “proofing”. This will just load the *showlabels* package.
- english* Babel will be loaded with *english* option. Otherwise *brazilian*.
- beamer* This will suppress the loading of the *geometry*, *titlesec* and *listings* packages. It doesn’t loads *beamer*.
- xpacks* The packages *longtable*, *xpacks*, *csquotes*, *caption*, *supcaption*, *url*, *multirow* and *bigdelim* will be loaded.
- times* This will load the *mathptmx* package (times roman) instead of (default) *lmodern*.
- noquests* This will suppress the loading of the *tikzquests* package.
- tikz* This will load *tikz*, *circuitikz*, *tikzquads*, *tikzdotncross*, *pgfplots* and *tikzfxgraph* packages (and *tikzquests*, if not suppressed).
- graphicx* This will load the *graphicx* package.
- math* This will load the *amsmath*, *amsfonts*, *amssymb*, *amsthm*, *mathrsfs*, *mathtools*, *empheq*, *extarrows*, *steinmetz*, *mathfixs*, *siunitx* and *cases* packages.
- listings* This will load the *listings* package. (if *beamer* is false)

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\*<https://github.com/alceu-frigeri/afterpack>

- landscape* Sets geometry for a landscape document
- fxgraph* (defaults to nothing) Options passed along to *tikzfxgraph* package, e.g. *fxgraph={use file}*.
- quests* (defaults to nothing) Options passed along to *tikzquests* package, e.g. *quests={xtrakeys={D}}*.
- dotncross* (defaults to nothing) Options passed along to *tikzdotncross* package, e.g. *dotncross={coordcolor={blue}}*.

Note that *etoolbox*, *fontenc*, *inputenc*, *xcolors* and *enumitem* will always be loaded. Besides those *geometry* will (if not already) as well *titlesec* and *listings* if *beamer* is false.

### 3 Commands

`\cab` `\cab`  $\{(\text{options})\} [(\text{extra})]$

This will typesets, in a new page, a typical exam header.  $\langle\text{extra}\rangle$  will be (if present) typeset as is, in a box below the main cab.  $\langle\text{options}\rangle$  is a key=val list of:

- uni* University's name. (default: Universidade Federal do Rio Grande do Sul)
- dept* Department's name. (default: Escola de Engenharia / DELAE)
- class* Class' name. (default: disciplina)
- classcode* Class' code. (default: ENGcode)
- exam* Exam text. (default: Verificação de Aproveitamento)
- sem* Semester. (default: 202x/Y)
- semester* alias to *sem*.
- name label* Student's label. (default: Nome)
- id label* Student's ID label. (default: Cartão)
- duo label* Duo labe. (default: Dupla)
- duo* If true, a duo label will be added to the identification lines (default: false)
- nonames* If true, the identification lines will be suppressed.
- simplegrad* If true, the grad option box will be used, with a preset text. (default: false)
- simplegrad text* Changes the default text of a simplegrad box.

For example:

LaTeX Code:

```
\cab{
  class={Eletrônica I} , classcode=ENG10044 ,
  exam = {\$1^a$ Verificação} , sem = {2025/1} , simplegrad
}
```

`\pgfmathparseFPU` `\pgfmathparseFPU`  $\{(\text{math-expr})\}$

This command is defined if, and only if, the *tikz* option is used. It will process  $\langle\text{math-expr}\rangle$  with `\pgfmathparse` whilst the */pgf/fpu* key is active, which greatly extends the TeX number's range. See the *fpu* library from *tikz* for more details.