# The afperpack 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.

## Contents



## 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 preloads 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 "debugging". This will just load the *showframe* package.

*showlabels* For labels placement/location "debugging". 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)

*https://github.com/alceu-frigeri/afperpack

*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 {⟨options⟩} [⟨extra⟩]`

This will typesets, in a new page, a typical exam header. ⟨extra⟩ will be (if present) typeset as is, in a box below the main cab. ⟨options⟩ 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 {⟨math-expr⟩}`

This command is defined if, and only if, the tikz option is used. It will process ⟨math-expr⟩ 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.