

# The afperpack Package

## Personal settings and preferences

### Version 1.0a

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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 L<sup>A</sup>T<sub>E</sub>X 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.
- `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)
- `landscape` Sets geometry for a landscape document

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

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

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`\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:

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

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`\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.