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 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.

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)

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

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

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.