

The afperpack Package

Personal settings and preferences

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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^AT_EX 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)

*<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:

<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
]
```

`\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.