The afperpack Package Personal settings and preferences Version 0.1

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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, and a few associated packages as "circuits libraries" (set's of quests based on tikzquests).

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Introduction 1

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 geometry/format "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
 - 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) 1modern.
 - noquests This will suppress the loading of the tikzquests package.
 - tikz This will load tikz, circuitikz, tikzquads, tikzdotncross 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)

^{*}https://github.com/alceu-frigeri/afperpack

3 Commands

This will typesets, in a new page, a typical exam header. (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)

name label Student's label. (default: Nome)

id label Student's ID label. (default: Cartão)

duo label Duo labe. (default: Dupla)

simplegrad If true, the grad option box will be used, with a preset text. (default: false) duo If true then duo label will be added to identification line (default: false)

nonames If true, the identification lines will be suppressed.

For example:

```
LATEX Code:
```

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

\pgfmathparseFPU

 $\verb|\pgfmathparseFPU {$\langle math-expr\rangle$}|$

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.

4 Other Packages

This bundle includes a few companion "packages": CircMisc, CircTheoryI, CircTheoryII and ElectronicI. Each of these defines sets of circuit-quests (based on tikzquests and circuitikz). It's possible to list all defined circuit-quests using the \QuestionsList command.