

The pkginfo Package

Version 1.0

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Abstract

This package is aimed at package writers and offers a way to collect/document L^AT_EX package's info (name, version, description, etc.) in a systemized way, including a mechanism to check package's version. Just a few functions are defined, to document/set package's info, retrieve them and to verify package's version (for instance, to verify if a loaded package is newer than a given reference).

1 Expl3 Commands

`\pkginfo_set:nn` `\pkginfo_set:nn {<pack-name>} {<keyval-list>}`

This will create a property list associated with `<pack-name>`. `<keyval-list>` might contain any set of keys, though, the functions below expect at least `<version>` (for version checking) and `<name>`, `<version>`, `<date>` and `<description>` (for `\PkgDescription`).

Note: An error will be raised if calling it twice for the same `<pack-name>`.

For Example:

```
\pkginfo_set:nn {pkginfo}
{
  name      = {pkginfo} ,
  prefix    = {pkginfo} ,
  date      = {2025/10/19},
  version   = {1.0} ,
  description = {Collecting~ package's~ info~ in~ a~ regular~ way}
}
```

`\pkginfo_get:nn` ★ `\pkginfo_get:nn {<pack-name>} {<key>}`

This will retrieve `<key>`'s value. If `<pack-name>` or `<key>` doesn't exist, this will expands to nothing.

`\pkginfo_get:nnN` `\pkginfo_get:nnN {<pack-name>} {<key>} {<tl-var>}`

This will store `<key>`'s value at `<tl-var>`. If `<pack-name>` or `<key>` doesn't exist, `<tl-var>` will be cleared.

`\pkginfo_required:nnn` `\pkginfo_required:nnn {<your-pack>} {<pack-name>} {<min-version>}`

These will verify if `<pack-name>`'s `<version>` (as stored with `\pkginfo_set:nn`) is at least `<min-version>`. It expects `<version>` in one of three formats `[v]digits[letters]`, `[v]digits.digits[letters]` or `[v]digits.digits.digits[letters]` (the `[v]`, if present, is ignored).

Note: An error will be raised if `<pack-name>`'s info isn't defined, incorrect version format or `<min-version>` isn't satisfied, in which case the error will note that **your-pack** needs version `<min-version>` of `<pack-name>`.

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

2 LaTeX2e Commands

`\PkgSet` `\PkgSet {<pack-name>} {<keyval-list>}`

This will create a property list associated with `<pack-name>`. `<keyval-list>` might contain any set of keys, though, the functions below expect at least `<version>` (for version checking) and `<name>`, `<version>`, `<date>` and `<description>` (for `\PkgDescription`).

Note: An error will be raised if calling it twice for the same `<pack-name>`.

For Example:

```
\PkgSet {pkginfo}
{
  name      = {pkginfo} ,
  prefix    = {pkginfo} ,
  date      = {2025/10/19},
  version   = {1.0} ,
  description = {Collecting~ package's~ info~ in~ a~ regular~ way}
}
```

`\PkgInfo` `\PkgInfo {<pack-name>} {<key>}`

This will retrieve `<key>`'s value. If `<pack-name>` or `<key>` doesn't exist, this will expand to nothing.

`\PkgDescription` `\PkgDescription {<pack-name>}`

These will typeset a small paragraph (for data validation) with following `<pack-name>`'s info: `<name>`, `<version>`, `<date>` and `<description>`

For example:

```
\PkgDescription{pkginfo} Package pkginfo Version: 1.0 - 2025/10/19
Collecting package's info in a regular way
```

`\PkgRequired` `\PkgRequired {<your-pack>} {<pack-name>} {<min-version>}`

These will verify if `<pack-name>`'s `<version>` (as stored with `\PkgSet`) is at least `<min-version>`. It expects `<version>` in one of three formats `[v]digits[letters]`, `[v]digits.digits[letters]` or `[v]digits.digits.digits[letters]` (the `[v]`, if present, is ignored).

Note: An error will be raised if `<pack-name>`'s info isn't defined, incorrect version format or `<min-version>` isn't satisfied, in which case the error will note that `your-pack` needs version `<min-version>` of `<pack-name>`.