

# The pkginfograb Package

## Version 1.2a

Alceu Frigeri\*

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### Abstract

This package is aimed at package writers and offers a way to collect/document L<sup>A</sup>T<sub>E</sub>X package's info (name, version, description, etc.) in a systematic 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 (if it is newer than a given reference).

## 1 Expl3 Commands

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`\pkginfograb_set:nn` `\pkginfograb_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> or <date> (for version checking) and <name>, <date>, <version> and <description> (for `\pkginfograb_description:n`).

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

For Example:

```
\pkginfograb_set:nn {pkginfograb}
{
  name      = {pkginfograb} ,
  prefix    = {pkginfograb} ,
  date      = {2026/01/03},
  version   = {1.2a} ,
  description = {Collecting~ package's~ info~ in~ a~ regular~ way}
}
```

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<code>\pkginfograbProvidesExplPackage</code>	<code>\pkginfograbProvidesExplPackage</code> {<pack-name>} {<keyval-list>}
<code>\pkginfograbProvidesExplClass</code>	<code>\pkginfograbProvidesExplClass</code> {<pack-name>} {<keyval-list>}
<code>\pkginfograbProvidesExplFile</code>	<code>\pkginfograbProvidesExplFile</code> {<pack-name>} {<keyval-list>}

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updated: 2026/01/03

Same as `\pkginfograb_set:nn`, but calling the commands `\ProvidesExplPackage`, `\ProvidesExplClass` or `\ProvidesExplFile` right after, with the information just set. It assumes the following properties to be present: *name*, *date*, *version* and *description*. This doesn't follow *expl3* convention, since *expl3* code régime will starts only after the commands `\ProvidesExpl...` are called. For Example:

```
\pkginfograbProvidesExplPackage {newpackage}
{
  name      = {newpackage} ,
  prefix    = {newpack} ,
  date      = {2026/01/03},
  version   = {1.0a} ,
  description = {some~ lazy~ pack}
}
```

This will be equivalent to call `\ProvidesExplPackage {newpackage} {2026/01/03} {1.0a} {some~ lazy~ pack}` after `\pkginfograb_set:nn`.

**Note:** *expl3* code régime will be en force after them.

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

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

This will verify if <pack-name>'s <version> (as stored with `\pkginfograb_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>.

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`\pkginfograb_req_date:nnn \pkginfograb_req_date:nnn {<your-pack>}{<pack-name>}{<min-date>}`

This will verify if <pack-name>'s <date> (as stored with `\pkginfograb_set:nn`) is at least <min-date>. It expects <date> in one of three formats `YYYY/MM/DD`, `YYYY-MM-DD` or `YYYY.MM.DD`.

**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-date> of <pack-name>.

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`\pkginfograb_set_aliases: \pkginfograb_set_aliases:`

This will set L<sup>A</sup>T<sub>E</sub>X 2<sub>ε</sub> aliases for the `expl3` commands in this package. Note that none of the commands in 2 are defined by default, except `\PkgInfoSetAliases` which is an alias for this command.

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

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

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`\pkginfograb_get:nnN \pkginfograb_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.

---

`\pkginfograb_description:n \pkginfograb_description:n {<pack-name>}`

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

For example:

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<code>\ExplSyntaxOn</code> <code>\pkginfograb_description:n{pkginfograb}</code> <code>\ExplSyntaxOff</code>	Package <b>pkginfograb</b> Version: 1.2a - 2026/01/03 <i>Collecting package's info in a regular way</i>
---	--

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`\pkginfograb_if_set_p:n ★ \pkginfograb_if_set_p:n {<pack-name>}`

`\pkginfograb_if_set:nTF ★ \pkginfograb_if_set:nTF {<pack-name>}{<if-true>}{<if-false>}`

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new: 2025/11/01

This will test if the given <pack-name> was set with `\pkginfograb_set:nn` and <if-true> or <if-false> will be properly executed.

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`\pkginfograb_map_inline:n \pkginfograb_map_inline:n {<inline-code>}`

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new: 2025/11/01

<inline-code> will receive (as <#1>) the name of each package set with `\pkginfograb_set:nn` in the order they were set.

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```

\ExplSyntaxOn
\pkginfograb_map_inline:n
{
  \pkginfograb_description:n{#1}
}
\ExplSyntaxOff

```

---

Package **pkginfograb** Version: 1.2a - 2026/01/03  
*Collecting package's info in a regular way*

Package **codedescribe** Version: 1.23 - 2025/12/30  
*LaTeX Code Description/Documentation*

Package **xpeekahead** Version: 1.3a - 2025/11/01  
*A simple peek ahead set up*

Package **codemm** Version: 1.23 - 2025/12/30  
*codedescribe/list common commands*

Package **codedescsets** Version: 1.23 - 2025/12/30  
*codedescribe label sets*

Package **codelisting** Version: 1.23 - 2025/12/30  
*LaTeX Code Listing*

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## 2 LaTeX2e Commands' Aliases

All commands below are aliases to their *expl3* counterparts. Aside from `\PkgInfoSetAliases` all other LaTeX2e aliases aren't defined by default. Call either `\pkginfograb_set_aliases:` or `\PkgInfoSetAliases` before using them.

`\PkgInfoSet` `\PkgInfoSet {<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 `\PkgInfoDescription`).

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

For Example:

```

\PkgInfoSet {pkginfograb}
{
  name      = {pkginfograb} ,
  prefix    = {pkginfograb} ,
  date      = {2026/01/03},
  version   = {1.2a} ,
  description = {Collecting~ package's~ info~ in~ a~ regular~ way}
}

```

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

This will verify if `<pack-name>`'s `<version>` (as stored with `\PkgInfoSet`) 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>`.

`\PkgInfoReqDate` `\PkgInfoReqDate {<your-pack>} {<pack-name>} {<min-date>}`

This will verify if `<pack-name>`'s `<date>` (as stored with `\PkgInfoSet`) is at least `<min-date>`. It expects `<date>` in one of three formats `YYYY/MM/DD`, `YYYY-MM-DD` or `YYYY.MM.DD`.

**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-date>` of `<pack-name>`.

`\PkgInfoSetAliases` `\PkgInfoSetAliases`

This will set LaTeX<sub>2 $\epsilon$</sub>  aliases for the *expl3* in this package. Note that none of the commands in 2 are defined by default, except this.

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

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

<u><code>\PkgInfoGet</code></u>	<code>\PkgInfoGet {&lt;pack-name&gt;} {&lt;key&gt;} {&lt;macro&gt;}</code>	This will store <key>'s value in <macro>. If <pack-name> or <key> doesn't exist, <macro> will be cleared.
<u><code>\PkgInfoDescription</code></u>	<code>\PkgInfoDescription {&lt;pack-name&gt;}</code>	<p>This will typeset a small paragraph (for data validation) with following &lt;pack-name&gt;'s info: &lt;name&gt;, &lt;version&gt;, &lt;date&gt; and &lt;description&gt;</p> <p>For example:</p> <hr/> <div> <div> <code>\PkgInfoDescription{pkginfograb}</code> </div> <div> Package <b>pkginfograb</b> Version: 1.2a - 2026/01/03  <i>Collecting package's info in a regular way</i> </div> </div> <hr/>
<u><code>\PkgInfoIfSet</code></u>	<code>\PkgInfoIfSet {&lt;pack-name&gt;} {&lt;if-true&gt;} {&lt;if-false&gt;}</code>	This will test if the given <pack-name> was set with <code>\PkgInfoSet</code> and <if-true> or <if-false> will be properly executed.
<u><code>\PkgInfoMapOver</code></u>	<code>\PkgInfoMapOver {&lt;inline-code&gt;}</code>	<inline-code> will receive (as <#1>) the name of each package set with <code>\PkgInfoSet</code> in the order they were set.
<u>new: 2025/11/01</u>	<div> <div> <code>\PkgInfoMapOver</code>  <code>{</code>  <code>  \PackageInfo{#1}</code>  <code>}</code> </div> <div> <hr/> Package <b>pkginfograb</b> Version: 1.2a - 2026/01/03  <i>Collecting package's info in a regular way</i>  Package <b>codedescribe</b> Version: 1.23 - 2025/12/30  <i>LaTeX Code Description/Documentation</i>  Package <b>xpeekahead</b> Version: 1.3a - 2025/11/01  <i>A simple peek ahead set up</i>  Package <b>codemm</b> Version: 1.23 - 2025/12/30  <i>codedescribe/list common commands</i>  Package <b>codescsets</b> Version: 1.23 - 2025/12/30  <i>codedescribe label sets</i>  Package <b>codelisting</b> Version: 1.23 - 2025/12/30  <i>LaTeX Code Listing</i> <hr/> </div> </div>	