

ACRO

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Typeset Acronyms

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ACRO not only allows you to create acronyms in a simple way but also lets you add them to different classes of acronyms. Lists can be created of separate classes wherever you want the list to appear.

ACRO also provides an option **single** which ignores acronyms that are used only once in the whole document.

As an experimental feature **ACRO** also offers the option **sort** which automatically sorts the list created by `\printacronyms`.

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1. Licence and Requirements

Permission is granted to copy, distribute and/or modify this software under the terms of the L^AT_EX Project Public License (LPPL), version 1.3 or later (<http://www.latex-project.org/lppl.txt>). The software has the status “maintained.”

ACRO loads and needs the following packages: `expl3`,¹ `xparse`, `xtemplate`, `l3keys2e`,² `zref-abspace`³ and translations⁴ [Nie13].

2. About

Acronyms and initialisms are abbreviations formed from the initial components in a phrase or a word. These components may be individual letters (as in CEO) or parts of words (as in Benelux and Ameslan). There is no universal agreement on the precise definition of the various terms nor on written usage. [Wik12a]

After WIKIPEDIA told us what acronyms are and we won’t confuse them with units or other kinds of abbreviations – why would we need another package for them? There are several already: `acronym` [Oet12], `acromake` [Tho95], `acroterm` [Vos10], the `abbreviations` package `abbrevs` [Swio1] (the current version 1.4 has a bug,⁵ though), the `nomenclature` package `nomencl` [Vey+05], and of course the mighty glossaries [Tal13]. So there is really no *need* for a new package.

On the other hand `acronym`, the best of the `acronym` specific packages, has one or two shortcomings and sometimes using glossaries seems a bit of an overkill (or simply inconvenient as one has to run `makeglossaries`, `makeindex` or `xindy`, then⁶). So **ACRO** stands somewhere in between (but closer to `acronym`).

The main reason for the existence of **ACRO** is a question on T_EX.sx⁷ which intrigued me and in consequence led to **ACRO** and it’s option `single`.

ACRO has many similarities with the `acronym` package. In fact, quite some macros have the same name and meaning.⁸

Please take a minute to think and decide which package will suit your needs best. Are you planning to add a glossary to your book? You should probably go with `glossaries`, then. Are

1. on CTAN as `l3kernel`: <http://mirrors.ctan.org/macros/latex/contrib/l3kernel/>

2. on CTAN as `l3packages`: <http://mirrors.ctan.org/macros/latex/contrib/l3packages/>

3. on CTAN as `oberdiek`: <http://mirrors.ctan.org/macros/latex/contrib/oberdiek/>

4. on CTAN as `translations`: <http://mirrors.ctan.org/macros/latex/contrib/translations/>

5. see <http://tex.stackexchange.com/q/59840/5049> for solutions.

6. Rumour has it there is going to be a version that can be used without running an external program

7. <http://tex.stackexchange.com/q/59449/5049>

8. Not in the sense of `\meaning`!

3. Updating from Version 0.*

you planning to add a nomenclature? You may want to choose `nomencl` (or again: `glossaries`) and so on. `ACRO` does a good job for lists of abbreviations.

3. Updating from Version 0.*

Version 1.0 introduces a major syntax change. In order to keep documents using a prior version compilable `ACRO` introduces the option `version = {0}`. It provides the acronym defining commands with the old syntax and also all the additional commands like `\DeclareAcronymFormat` that have been dropped in version 1.0. Also the old syntax of `\printacronyms` is restored. Versions 0.* also set labels when an acronym was used the first time, version 1.0 doesn't do that any more. `version = {0}` sets them as expected.

Note that `version = {0}` *does not and will not* support new features of any kind, at least not explicitly.

With version 1.0 acronyms are declared with a key/value syntax similar to the way in package `glossaries` glossary entries are defined. This was made for a good reason: in the beginning the old `\DeclareAcronym` already had lots of arguments that were hard to remember. Every new feature needed to introduce further commands so that in version 0.6 there have been *four* different commands already. All this isn't necessary any more and there is only one command with only two arguments.

4. Basics

4.1. Creating New Acronyms

Changed in
version 1.0

Acronyms are created with the command `\DeclareAcronym` that can only be used in the preamble.

`\DeclareAcronym{<id>}{<list of keys>}`

The basic command for declaring an acronym.

This command understands a number of keys which are listed below. Some of them are not described immediately but at appropriate places in the documentation.

`short = {<text>}` (required)
the short form of the acronym.

`long = {<text>}` (required)
the long form of the acronym.

`short-plural = {<text>}` Default: s
the plural ending appended to the short form.

`long-plural = {<text>}` Default: s
the plural ending appended to the long form.

long-plural-form = $\{\langle text \rangle\}$

plural long form of the acronym; replaces the long form when used instead of appending the plural ending.

list = $\{\langle text \rangle\}$

if specified this will be written in the list as description instead of the long form.

Introduced in
version 1.4

short-indefinite = $\{\langle text \rangle\}$

indefinite article for the short form.

Default: a

Introduced in
version 1.2

long-indefinite = $\{\langle text \rangle\}$

indefinite article for the long form.

Default: a

Introduced in
version 1.2

long-pre = $\{\langle text \rangle\}$

$\langle text \rangle$ is prepended to the long form in the text but not in the list of acronyms.

Introduced in
version 1.1

long-post = $\{\langle text \rangle\}$

$\langle text \rangle$ is appended to the long form in the text but not in the list of acronyms.

Introduced in
version 1.1

alt = $\{\langle text \rangle\}$

alternative short form.

alt-indefinite = $\{\langle text \rangle\}$

indefinite article for the alternative form.

Default: a

Introduced in
version 1.2

extra = $\{\langle text \rangle\}$

extra information to be added in the list of acronyms.

foreign = $\{\langle original long form \rangle\}$

can be useful when dealing with acronyms in foreign languages, see section 4.6 for details.

Introduced in
version 1.3

sort = $\{\langle text \rangle\}$

if used the acronym will be sorted according to this key instead of its ID.

class = $\{\langle text \rangle\}$

the class the acronym belongs to.

cite = $\{[\langle prenote \rangle][\langle postnote \rangle]\{\langle citation keys \rangle\}\}$

a citation that is printed to the acronym according to an option explained later.

short-format = $\{\langle \textit{TeX code} \rangle\}$

the format used for the short form of the acronym.

long-format = $\{\langle \textit{TeX code} \rangle\}$

the format used for the long form of the acronym.

first-long-format = $\{\langle \textit{TeX code} \rangle\}$

the format used for the first long form of the acronym as set with `\ac`, `\acf` or `\acflike` and their uppercase, plural and indefinite forms.

`pdfstring = {\text}/\plural ending\}`

used as PDF string replacement in bookmarks when used together with the `hyperref` package. The appended plural ending is optional. If you leave it (*and the /*) the default ending is used.

`accsupp = {\text}`

sets the `ActualText` key as presented by the `accsupp` package for the acronym.

`index-sort = {\text}`

Introduced in
version 1.1

If you use the package option `index` every occurrence of an acronym is recorded to the index and sorted by its ID or (if set) by the value of the `sort` key. This key allows to set an individual sorting option for the index. See section 5.7 for details.

`index = {\text}`

Introduced in
version 1.1

This key allows to overwrite the automatic index entry with an arbitrary one. See section 5.7 for details.

`index-cmd = {\text}`

Introduced in
version 1.1

This key let's you set an individual index creating command for this acronym. It should be a command that takes one mandatory argument. See section 5.7 for details.

In its simplest form an acronym needs a short and a long form. Please note that both keys *must* be set and that the `short = {\text}` key *must* always be the *first* key that is set.

```
1 % preamble:
2 \DeclareAcronym{test}{
3   short = ST ,
4   long  = Some Test
5 }
```

This creates the acronym “ST” with the ID “test” and the long form “Some Test.”

The `format` key allows you to choose a specific format for the short form of an acronym:

```
1 % preamble:
2 \DeclareAcronym{ot}{
3   short      = ot ,
4   long       = Other Test ,
5   short-format = \scshape
6 }
```

The short form now looks like this: OT.

4. Basics

The `\cite` key needs a bit explaining. It expects arguments like the standard `\cite` command, *i.e.*, two optional arguments setting the $\langle prenote \rangle$ and $\langle postnote \rangle$ and one mandatory argument setting the citation key.

```
1 % preamble:
2 \DeclareAcronym{ny}{
3   short      = NY ,
4   short-plural = ,
5   long       = New York ,
6   long-plural = ,
7   cite       = {NewYork}
8 }
```

```
1 % bib file for use with biber/biblatex:
2 @online{NewYork,
3   author = {Wikipedia},
4   title  = {New York City},
5   urldate = {2012-09-27},
6   url    = {http://en.wikipedia.org/wiki/New_York_City},
7   year   = {2012}
8 }
```

The first appearance now looks as follows⁹: New York (NY) [Wik12b].

4.2. Using the Acronyms – the Commands

Acronyms are used with with one of the following commands:

`\ac*{ $\langle id \rangle$ }`

basic command; the first output is different from subsequent ones.

`\Ac*{ $\langle id \rangle$ }`

same as `\ac` but capitalizes the first letter of the long form.

`\acs*{ $\langle id \rangle$ }`

short form; the actual acronym.

`\acl*{ $\langle id \rangle$ }`

long form; the meaning of the acronym.

⁹. The appearance of the citation of course depends on the citation style you're using.

`\Acl*{⟨id⟩}`

same as `\acl` but capitalizes first letter.

`\aca*{⟨id⟩}`

alternative short form as specified in the `alt` key of `\DeclareAcronym`; if it hasn't been specified this is identical to `\acs`.

`\acf*{⟨id⟩}`

first form; output like the first time `\ac` is output.

`\Acf*{⟨id⟩}`

same as `\acf` but capitalizes first letter of the long form.

`\acp*{⟨id⟩}`

plural form of `\ac`;

`\Acp*{⟨id⟩}`

same as `\acp` but capitalizes first letter of the long form.

`\acsp*{⟨id⟩}`

plural form of `\acs`;

`\aclp*{⟨id⟩}`

plural form of `\acl`;

`\Aclp*{⟨id⟩}`

same as `\aclp` but capitalizes first letter.

`\acap*{⟨id⟩}`

plural form of `\aca`;

`\acfp*{⟨id⟩}`

plural form of `\acf`;

`\Acfp*{⟨id⟩}`

same as `\acfp` but capitalizes first letter of the long form.

If an acronym is used the first time with `\ac` its output is different from subsequent uses. To be clear on this: the first time! If the acronym has been used with *any* of the output commands before it is *not* the first time any more.

If you use the starred variant an acronym will not be marked as used. This proves useful if an acronym is typeset in a section title, for example, since then the appearance in the table of contents won't mark it as used.

<pre> 1 % preamble: 2 % \DeclareAcronym{cd}{ 3 % short = cd , 4 % long = Compact Disc , 5 % short-format = \scshape 6 % } 7 first time: \ac{cd} \\ 8 second time: \ac{cd} \\ 9 short: \acs{cd} \\ 10 alternative: \aca{cd} \\ 11 first again: \acf{cd} \\ 12 long: \acl{cd} \\ 13 short plural: \acsp{cd} \\ 14 long plural: \aclp{cd} </pre>	<pre> first time: Compact Disc (CD) second time: CD short: CD alternative: CD first again: Compact Disc (CD) long: Compact Disc short plural: CDs long plural: Compact Discs </pre>
--	---

4.3. Plural Forms

If an acronym is defined in the standard way `ACRO` uses an ‘s’ that’s appended to both the short and the long form when one of the plural commands is used. However, that is not always the best solution. For one thing not all acronyms may have a plural form. Second, the plural form especially of the long forms may be formed differently. And third, other languages can have other plural endings.

For these reasons `\DeclareAcronym` can get the following keys:

`short-plural` = { $\langle text \rangle$ } Default: s

The plural ending of the short form.

`long-plural` = { $\langle text \rangle$ } Default: s

The plural ending of the long form.

`long-plural-form` = { $\langle text \rangle$ }

An alternative plural form for the long form.

These keys are optional. If they’re not used, the default setting is s. If you use `long-plural-form` the long form will be replaced by the specified plural form when necessary.

Suppose we define the following acronyms:

```

1 \DeclareAcronym{cd}{
2   short      = cd ,
3   long       = Compact Disc ,
4   short-format = \scshape
5 }
6 \DeclareAcronym{ny}{
7   short      = NY ,
8   short-plural = ,

```



```

9   long      = New York ,
10  long-plural =
11  }
12  \DeclareAcronym{sw}{
13    short      = SW ,
14    long       = Sammelwerk ,
15    long-plural = e
16  }
17  \DeclareAcronym{MP}{
18    short      = MP ,
19    long       = Member of Parliament ,
20    long-plural-form = Members of Parliament
21  }

```

These acronyms now have the following plural appearances:

1 \acsp{cd}, \aclp{cd} \\\	CDS, Compact Discs
2 \acsp{ny}, \aclp{ny} \\\	NY, New York
3 \acsp{sw}, \aclp{sw} \\\	SWs, Sammelwerke
4 \acsp{MP}, \aclp{MP}	MPs, Members of Parliament

4.4. Alternative Short Forms

For some acronyms it might be useful to have alternative forms. For this `\DeclareAcronym` has another key:

`alt = {⟨text⟩}`

Alternative short form.

```

1 % preamble:
2 % \DeclareAcronym{jpg}{
3 %   short = JPEG ,
4 %   alt   = JPG ,
5 %   long  = Joint Photographic Experts Group
6 % }
7 default: \acs{jpg} \\\
8 alt.: \aca{jpg}

```

default: JPEG
alt.: JPG

The alternative form uses the same plural ending as the default short form and is formatted in the same way.

4.5. Extra Information for the List Entry

Of course you can print a list of acronyms where their meaning is explained. Sometimes it can be useful to add additional information there. This is done with another key to `\DeclareAcronym`:

`extra = {\text}`

Additional information for the list of acronyms.

These information will only be displayed in the list. See section 6 for the impact of the following example.

```

1 % preamble:
2 % \DeclareAcronym{nato}{
3 %   short      = nato ,
4 %   long       = North Atlantic Treaty Organization ,
5 %   extra      = \textit{deutsch}: Organisation des Nordatlantikvertrags ,
6 %   short-format = \scshape
7 % }
8 The \ac{nato} is an intergovernmental military alliance based on the
9 North Atlantic Treaty which was signed on 4~April 1949. \ac{nato}
10 headquarters are in Brussels, Belgium, one of the 28 member states
11 across North America and Europe, the newest of which, Albania and
12 Croatia, joined in April 2009.
```

The North Atlantic Treaty Organization (NATO) is an intergovernmental military alliance based on the North Atlantic Treaty which was signed on 4 April 1949. NATO headquarters are in Brussels, Belgium, one of the 28 member states across North America and Europe, the newest of which, Albania and Croatia, joined in April 2009.

4.6. Foreign Language Acronyms

I repeatedly read the wish for being able to add translations to acronyms when the acronyms stem from another language than the document language, *i.e.*, something like the following in a German document:

<pre> 1 \ac{ecu}\ 2 \ac{ecu}</pre>	<p>Steuergerät (Electronic Control Unit, ECU) ECU</p>
------------------------------------	---

That's why I decided to add the following key:

foreign = { \langle original long form \rangle }

A description for an acronym originating in another language than the document language.

Here is the definition of the above mentioned ECU acronym:

```

1 \DeclareAcronym{ecu}{
2   short   = ECU ,
3   long    = Steuerger\''at ,
4   foreign = Electronic Control Unit
5 }
```

As you have seen this adds the **foreign** entry to the first appearance of an acronym. It is also added in parentheses to the list of acronyms after the **long** entry. Actually the entry there is the argument to the following command:

\acroenparen{ \langle argument \rangle }

Places \langle argument \rangle in parentheses: **\acroenparen**{example}: (example). See page 19 for a way to customize this other than redefining it.

5. Additional Commands and Possibilities

5.1. Indefinite Forms

Introduced in
version 1.2

Unlike many other languages¹⁰ in English the indefinite article is not determined by the grammatical case, gender or number but by the pronunciation of the following word. This means that the short and the long form of an acronym can have different indefinite articles. For these cases **ACRO** offers the keys **short-indefinite**, **alt-indefinite** and **long-indefinite** whose default is a. For every lowercase singular command two alternatives exist, preceded by **i** and **I**, respectively, which output the lowercase and uppercase version of the corresponding indefinite article.

```

1 % preamble:
2 % \DeclareAcronym{ufo}{
3 %   short      = UFO ,
4 %   long       = unidentified flying object ,
5 %   long-indefinite = an
6 % }
7 \Iac{ufo}; \iacs{ufo}; \iacl{ufo}
```

10. Let's better say: unlike the other languages where I know at least the basics.

An unidentified flying object (UFO); a UFO; an unidentified flying object

5.2. Uppercasing

`\acfirstupper{⟨token list⟩}`

Introduced in
version 1.3e

This command uppercases the first token in *⟨token list⟩*. The command is less powerful than `\makefirstuc` that is provided by the `mfirstuc` package [Tal12] but it is expandable. Obvious downsides are for example that it does not uppercase accented letters.

5.3. Simulating the First Appearance

Introduced in
version 1.2

Users told me¹¹ that there are cases when it might be useful to have the the acronym typeset according to the *first-style* but with another text than the long form. For such cases `ACRO` offers the following commands.

`\acfllike*{⟨id⟩}{⟨instead of long form⟩}`

Write some alternative long form for acronym *⟨id⟩* as if it were the first time the acronym was used.

`\acfplike*{⟨id⟩}{⟨instead of long form⟩}`

Plural form of `\acfllike`.

`\acsetup{first-style=footnote}`

`\acfllike{ny}{the big apple}`

NY^a

a. the big apple [Wik12b]

The plural ending in `\acfplike` is only appended to the short form. It makes no sense to append it to the text that is inserted manually anyway. Note that whatever text you're inserting might be gobbled depending on the *first-style* you're using.

5.4. Using Classes

The acronyms of `ACRO` can be divided into different classes. This doesn't change the output but allows different acronym lists, see section 6. For this `\DeclareAcronym` has an additional key:

`class = {⟨text⟩}`

Associated class for an acronym.

This might be useful if you can and want to divide your acronyms into different types, technical and grammatical ones, say, that shall be listed in different lists.

¹¹. Well – one, to be precise ;)

```

1 % preamble:
2 % \DeclareAcronym{la}{
3 %   short      = LA ,
4 %   short-plural = ,
5 %   long       = Los Angeles ,
6 %   long-plural = ,
7 %   class      = city
8 % }
9 % \DeclareAcronym{ny}{
10 %   short      = NY ,
11 %   short-plural = ,
12 %   long       = New York ,
13 %   long-plural = ,
14 %   class      = city ,
15 %   cite       = NewYork
16 % }
17 \acl{la} (\acs{la}) \
18 \acl{ny} (\acs{ny})

```

Los Angeles (LA)
New York (NY)

5.5. Reset or Mark as Used, Test if Acronym Has Been Used

If you want for some reason to fool **ACRO** into thinking that an acronym is used for the first time you can call one of these commands:

\acreset{*<comma separated list of ids>*}

Introduced in
version 0.5

This will reset a used acronym such that the next use of **\ac** will again print it as if it were used the first time. This will *not* remove an acronym from being printed in the list if it actually *has* been used before.

\acresetall

Reset all acronyms.

\acifused{*<id>*}{*<true>*}{*<false>*}

Introduced in
version 1.3e

This command tests if the acronym with ID *<id>* has already been used and either puts **true** or **false** in the input stream.

```
1 \acreset{ny}\ac{ny}
```

New York (NY) [Wik12b]

Beware that both commands act *globally*! There are also commands that effectively do the opposite of **\acreset**, *i.e.*, mark acronyms as used:

\acuse{*<comma separated list of ids>*}

Introduced in
version 0.5

This has the same effect as if an acronym had been used twice, that is, further uses of **\ac** will

print the short form and the acronym will in any case be printed in the list (as long as its class is not excluded).

`\acuseall`

Introduced in
version 0.6a

Mark all acronyms as used.

5.6. `\ac` and Friends in PDF Bookmarks

Introduced in
version 0.5

`ACRO`'s commands usually are not expandable which means they'd leave unallowed tokens in PDF bookmarks. `hyperref` offers `\texorpdfstring` to circumvent that issue manually but that isn't really a nice solution. What's the point of having macros to get output for you if you have to specify it manually after all?

That is why `ACRO` offers a preliminary solution for this. In a bookmark every `\ac` like command falls back to a simple text string typesetting what `\acs` would do (or `\acsp` for plural forms). These text strings both can be accessed manually and can be modified to an output reserved for PDF bookmarks.

`\acpdfstring{⟨id⟩}`

Access the text string used in PDF bookmarks.

`\acpdfstringplural{⟨id⟩}`

Access the plural form of the text string used in PDF bookmarks.

`pdfstring = {{⟨pdfstring⟩/⟨plural ending⟩}}`

Key for `\DeclareAcronym` to declare a custom text string for PDF bookmarks. The plural ending can be set optionally.

`accsupp = {⟨text⟩}`

Introduced in
version 1.0

Key for `\DeclareAcronym` to set the `ActualText` property of `\BeginAccSupp` (see `accsupp`'s documentation for details) to be used for an acronym. It only has an effect when the package option `accsupp` is used, too.

For example the PDF acronym used in the title for this section is defined as follows:

```
1 \DeclareAcronym{pdf}{
2   short    = pdf ,
3   long     = Portable Document Format ,
4   format   = \scshape ,
5   pdfstring = PDF ,
6   accsupp  = PDF
7 }
```

This also demonstrates the `accsupp` key. For this to work you need to use the *package option* `accsupp`, too, which will load the package `accsupp`. Then the key `accsupp` will set the

6. Printing the List

ActualText property of `\BeginAccSupp`. Please refer to `accsupp`'s documentation for details. To see its effect copy PDF and paste it into a text file. You should get uppercase letters instead of lowercase ones.

5.7. Adding Acronyms to the Index

Introduced in
version 1.1

`ACRO` has the package option `index`. If it is used an index entry will be recorded every time an *unstarred* acronym command is used. The index entry will be $\langle id \rangle @ \langle short \rangle$, $\langle sort \rangle @ \langle short \rangle$ if the `sort` key has been set, $\langle index-sort \rangle @ \langle short \rangle$ if the `index-sort` has been set, or $\langle index \rangle$ if the key `index` has been set for the specific acronym. The short versions appearing there are formatted according to the chosen format of the corresponding acronym, of course.

This document demonstrates the feature. You can find every acronym that has been declared in the index. In order to allow flexibility the indexing command can be chosen both globally via package option and individually for every acronym. This would allow to add acronyms to a specific index if more than one index is used, for example with help of the `imakeidx` package.

I'm not yet convinced this is a feature many people if anyone needs and if they do if it is flexible enough. If you have any thoughts on this I'd appreciate an email.

6. Printing the List

Changed in
version 1.0

Printing the whole list of acronyms is easy: just place `\printacronyms` where ever you want the list to be.

`\printacronyms[$\langle options \rangle$]`
Print the list of acronyms.

The commands takes a few options, namely the following ones:

`include-classes = { $\langle list of classes \rangle$ }`

Takes a comma-separated list of the classes of acronyms that should be in the list.

`exclude-classes = { $\langle list of classes \rangle$ }`

Takes a comma-separated list of the classes of acronyms that should *not* be in the list.

`name = { $\langle name of the list \rangle$ }`
sets the name for the list.

`heading = { $\langle sectioning command without leading backslash \rangle$ }` Default: `section*`
Sets the sectioning command for the heading of the list. A special value is `none` which suppresses the heading.

Changed in
version 1.3

`sort = true | false` Default: `true`
Set sorting for this list only.

Introduced in
version 1.3

```
1 \acsetup{extra-style=comma}
2 \printacronyms[exclude-classes=city]
3
4 \printacronyms[include-classes=city,name={City Acronyms}]
```

Acronyms

CD Compact Disc

CTAN Comprehensive T_EX Archive Network

ECU Steuergerät (Electronic Control Unit)

ID identification string

JPEG Joint Photographic Experts Group

MP Member of Parliament

NATO North Atlantic Treaty Organization, *deutsch*: Organisation des Nordatlantikvertrags

PDF Portable Document Format

SW Sammelwerk

ST Some Test

UFO unidentified flying object

City Acronyms

LA Los Angeles

NY New York

You can see that the default layout is a description list with a `\section*` title. Both can be changed, see section 7.

The command `\printacronyms` needs two L^AT_EX runs. This is a precaution to avoid error messages with a possibly empty list. But since almost all documents need at least two runs and often are compiled much more often than that, this fact shouldn't cause too much inconvenience.

7. Options and Customization

7.1. General Options

There are a few options which change the general behaviour of **ACRO**. Underlined values are used if no value is given.

version = 0|1 Default: 1
Provide backwards compatibility for documents set with **ACRO** in a version prior to v1.0.

Introduced in
version 1.6

messages = silent|loud Default: loud
Setting **messages** = {silent} will turn all of **ACRO**'s error messages into warnings and all of **ACRO**'s warnings into info messages. Be sure to check the log file carefully if you decide to set this option.

single = true|false Default: false
If set to true an acronym that's used only once (with **\ac**) in a document will only print the long form and will not be printed in the list.

hyperref = true|false Default: false
If set to true the short forms of the acronyms will be linked to their list entry.

Introduced in
version 1.5

label = true|false Default: false
If set to true this option will place **\label**{<prefix><id>} the first time the acronym with ID <id> is used.

Introduced in
version 1.5

label-prefix = {<text>} Default: ac:
The prefix for the **\label** that is placed when option **label** = {true} is used.

record-pages = true|false Default: true
Since **ACRO** can handle arabic, roman and Roman page numbers but *not* any other kind of numbering this option allows to turn the page number recording off for these cases as it would lead to errors else. This affects the whole document and can only be set in the preamble! It means you cannot have page numbers in the list of acronyms in this case. Or rather: you can if you use **pages** = {first}.

only-used = true|false Default: true
This option is true as default. It means that only acronyms that are actually used in the document are printed in the list. If false, all acronyms defined with **\DeclareAcronym** will be written to the list.

Introduced in
version 1.2

mark-as-used = first|any Default: any
This option determines whether an acronym is mark as used when the *first* form is used the first time (with **\ac**, **\acf** or **\acflike** and their uppercase, plural and indefinite forms) or when any of the **\ac**-like commands is used.

macros = true|false Default: false
If set to true this option will create a macro **\<id>** for each acronym as a shortcut for **\ac**{<id>}. Already existing macros will *not* be overwritten.

7. Options and Customization

Introduced in
version 0.6

`xspace = true|false` Default: false
If set to true this option will append `\xspace` from the xspace package to the commands created with the `macros` option.

`strict = true|false` Default: false
If set to true and the option `macros = {true}` is in effect then already existing macros will be overwritten.

`sort = true|false` Default: true
If set to true the acronym list will be sorted automatically. The entries are sorted by their ID ignoring upper and lower case. This option needs the experimental package `l3sort` (from the `l3experimental` bundle) and can only be set in the preamble.

`cite = all|first|none` Default: first
This option decides whether citations that are added via `cite` are added to each first, every or no appearance of an acronym.

`cite-cmd = {<control sequence>}` Default: `\cite`
This option determines which command is used for the citation. Each citation command that takes the cite key as argument is valid, for example biblatex's `\footcite`.

`cite-space = {<code>}` Default: `\nobreakspace`
Depending on the citation command in use a space should be inserted before the citation or maybe not (e.g. `\footcite...`). This option allows you to set this. Actually it can be used to place arbitrary code right before the citation.

Introduced in
version 1.1

`index = true|false` Default: false
If set to true an index entry will be recorded every time an *unstarred* acronym command is used for the corresponding acronym.

Introduced in
version 1.1

`index-cmd = {<control sequence>}` Default: `\index`
Chooses the index command that is used when option `index` has been set to true.

Introduced in
version 1.0

`accsupp = true|false` Default: false
Activates the access support as provided by the accsupp package.

`uc-cmd = {<control sequence>}` Default: `\acfirstupper`
The command that is used to capitalize the first word in the `\Ac` and the like commands. You can change it to another one like for example `\makefirstuc`¹² or `\MakeTextUppercase`.¹³

All options of this and the following sections can be set up either as package options or via the `setup` command:

`\acsetup{<options>}`
Set up `ACRO` anywhere in the document. Or separate package loading from setup.

12. from the `mfirstuc` package

13. from the `textcase` package

```

1 % with \acsetup{macros}
2 we could have used these before: \nato, \ny

```

we could have used these before: NATO, NY

7.2. Options Regarding Acronyms

The options described in this section all influence the layout of one of the possible output forms of the acronyms.

short-format = { $\langle format \rangle$ } (initially empty)
 Sets a format for all short forms. For example **short-format** = {\scshape} would print all short forms in small caps.

long-format = { $\langle format \rangle$ } (initially empty)
 The same for the long forms.

Introduced in
version 1.3

foreign-format = { $\langle format \rangle$ } (initially empty)
 The format for the **foreign** entry when it appears as part of the first appearance of an acronym.

Introduced in
version 1.2

first-long-format = { $\langle format \rangle$ } (initially empty)
 The format for the long form on first usage (with **\ac**, **\acf** or **\acflike** and their uppercase, plural and indefinite forms).

Introduced in
version 1.1

list-short-format = { $\langle format \rangle$ } (initially empty)
 An extra format for the short entries in the list. If not used this is the same as **short-format**. Please be aware that a call of **short-format** after this one will overwrite it again.

list-long-format = { $\langle format \rangle$ } (initially empty)
 An extra format for the long entries in the list. If not used this is the same as **long-format**. Please be aware that a call of **long-format** after this one will overwrite it again.

list-foreign-format = { $\langle format \rangle$ } Default: **\acroenparen**
 The format for the **foreign** entry as it appears in the list. This may be code that ends with a macro that takes a mandatory argument.

extra-format = { $\langle format \rangle$ } (initially empty)
 The same for the extra information.

first-style = default|plain|empty|square|short|reversed|plain-reversed|footnote|sidenote

Default: default

Changed in
version 1.1

The basic style of the first appearance of an acronym. The value **sidenote** needs the command **\sidenote** to be defined for example by the **sidenotes** package.

7. Options and Customization

extra-style = default|plain|comma|paren|bracket Default: default

Defines the way the extra information is printed in the list.

plural-ending = {<tokenlist>} Default: s

With this option the default plural ending can be set.

```

1 % (Keep in mind that we're in
2 % a minipage here!)
3 \acsetup{first-style=empty}
4 \acf{ny} \l NY
5 \acsetup{first-style=footnote} NYa
6 \acf{ny} \l New York [NY] [Wik12b]
7 \acsetup{first-style=square} NY [Wik12b]
8 \acf{ny} \l NY (New York) [Wik12b]
9 \acsetup{first-style=short} New York – NY [Wik12b]
10 \acf{ny} \l NY – New York [Wik12b]
11 \acsetup{first-style=reversed}
12 \acf{ny} \l
13 \acsetup{first-style=plain}
14 \acf{ny} \l
15 \acsetup{first-style=plain-reversed}
16 \acf{ny} \l

```

7.3. Options Regarding the List

page-ref = none|plain|comma|paren Default: none

If this option is set to a value other than none the page numbers of the an acronym appeared on are printed in the list. Please note that this is an experimental feature and might fail in quite a number of cases. If you notice anything please send me an email!

pages = all|first Default: all

Introduced in
version 1.5

If the option **page-ref** has any value other than none this option determines whether all usages of the acronyms are listed or only the first time. Implicitly sets **label** = {true}.

page-name = {<page name>} Default: p.\@,

The “name” of the page label. This is automatically translated to the active language. However for the time being there are many translations missing, yet. Please notify me if you find your language missing.

pages-name = {<page name plural>} Default: pp.\@,

Introduced in
version 1.0

The “name” of the page label when there are more than one page. This is automatically translated to the active language. However for the time being there are many translations missing, yet. Please notify me if you find your language missing.

7. Options and Customization

Introduced in version 1.3	<code>following-page = <u>true</u> false</code>	Default: false
	If set to <code>true</code> a page range in the list of acronyms that consists of two pages will be written by the first page and an appended <code>f</code> . This depends on the option <code>next-page</code> .	
Introduced in version 1.3	<code>following-pages = <u>true</u> false</code>	Default: false
	If set to <code>true</code> a page range in the list of acronyms that set consists of more than two pages will be written by the first page and an appended <code>ff</code> . This depends on the option <code>next-pages</code> .	
Introduced in version 1.0	<code>next-page = {\text}</code>	Default: <code>\, f.\@</code>
	Appended to a page number when <code>following-page</code> is set to <code>true</code> and the range is only 2 pages long. This is automatically translated to the active language. However, for the time being there are many translations missing, yet. Please notify me if you find your language missing.	
Introduced in version 1.0	<code>next-pages = {\text}</code>	Default: <code>\, ff.\@</code>
	Appended to a page number when <code>following-pages</code> is set to <code>true</code> and the range is more than 2 pages long. This is automatically translated to the active language. However, for the time being there are many translations missing, yet. Please notify me if you find your language missing.	
	<code>list-type = table <list></code>	Default: description
	This option let's you choose how the list is printed. <code><list></code> can be any valid list like <code>itemize</code> or <code>description</code> .	
	<code>list-style = list tabular longtable extra-tabular extra-longtable extra-tabular-rev extra-longtable-rev</code>	Default: list
	If you choose <code>list-type = {table}</code> you have to specify which kind of table should be used. If you choose <code>longtable</code> , <code>extra-longtable</code> or <code>extra-longtable-rev</code> you have to load <code>longtable</code> in your preamble. The values <code>extra-longtable</code> and <code>extra-longtable-rev</code> put the extra information in a column of its own.	
	<code>list-heading = chapter chapter* section section* subsection subsection* addchap addsec none</code>	Default: section*
Changed in version 1.3	The heading type of the list. The last two only work with a KOMA-Script class that also defines the appropriate command. A special value is <code>none</code> which suppresses the heading.	
	<code>list-name = {\text}</code>	Default: Acronyms
	The name of the list. This is what's written in the list-heading. This is automatically translated to the active language. However, for the time being there are many translations missing, yet. Please notify me if you find your language missing.	
	<code>list-table-width = {\text}</code>	Default: <code>.7\linewidth</code>
	This has only an effect if you chose <code>list-type = {\text}</code> . The <i>second</i> column (or the third if you choose one of the <code>-rev</code> styles) of the table is a <code>p</code> column whose width can be specified with this option.	
	<code>list-caps = <u>true</u> false</code>	Default: false
	Print the first letters of the long form capitalized.	

8. About Page Ranges

If you for example have loaded `enumitem` you can define a custom list for the acronym list:

```
1 % preamble:
2 % \usepackage{enumitem}
3 \newlist{acronyms}{description}{1}
4 \newcommand*\addcolon[1]{#1:}
5 \setlist[acronyms]{
6   labelwidth=3em,
7   leftmargin=3.5em,
8   noitemsep,
9   itemindent=0pt,
10  font=\addcolon}
11 \acsetup{list-type=acronyms,hyperref=false,extra-style=comma}
12 \printacronyms
```

Acronyms

CD: Compact Disc
CTAN: Comprehensive T_EX Archive Network
ECU: Steuergerät (Electronic Control Unit)
ID: identification string
JPEG: Joint Photographic Experts Group
LA: Los Angeles
MP: Member of Parliament
NATO: North Atlantic Treaty Organization, *deutsch:* Organisation des Nordatlantikvertrags
NY: New York
PDF: Portable Document Format
SW: Sammelwerk
ST: Some Test
UFO: unidentified flying object

8. About Page Ranges

If you enable the `page-ref` option **ACRO** adds page numbers to the list of acronyms. In version 0.* it would add a page reference for an acronym in the list of acronyms that used `\pageref` to refer to the first appearance of an acronym. This is retained using `version = {0}`. Version 1.0 uses a different approach that doesn't use a label but instead will list *all* pages an acronym appeared on. With `hyperref` the pages are referenced using `\hyperpage`.

There are some options that control how this list will be typeset, e.g., `following-page`, `next-pages` or the option `page-ref` itself. It is important to mention that the page list will always take at least two compilation runs until changes in the options or the actual page

numbers affect it. This is due to the fact that the updated sequence is first written to the aux file and only read in during the next run.

9. Language Support

ACRO detects if packages babel or polyglossia are being loaded and tries to adapt certain strings to match the chosen language. However, due to my limited language knowledge only a few translations are provided. I'll show how the English translations are defined so you can add the translations to your preamble if needed. Even better would be you'd send me a short email at contact@mychemistry.eu with the appropriate translations for your language and I'll add them to **ACRO**.

```
1 \DeclareTranslation{English}{acronym-list-name}{Acronyms}
2 \DeclareTranslation{English}{acronym-page-name}{p.}
3 \DeclareTranslation{English}{acronym-pages-name}{pp.}
4 \DeclareTranslation{English}{acronym-next-page}{f.}
5 \DeclareTranslation{English}{acronym-next-pages}{ff.}
```

10. hyperref Support

The option `hyperref = {true}` adds internal links from all short (or alternative) forms to their respective list entries. Of course this only works if you have loaded the hyperref package in your preamble. You should use this option with care: if you don't use `\printacronyms` anywhere this option will result in loads of hyperref warnings. Also printing several lists can result in warnings if don't clearly separate the lists into different classes. If an acronym appears in more than one list there will also be more than one hypertarget for this acronym.

Using hyperref will also add `\hyperpage` to the page numbers in the list (provided they are displayed in the style chosen). Like with an index the references will thus not point to the acronyms directly but to the page they're on.

A. Commands provided in version 0.*

Prior to version 1.0 the following commands were available. They are still provided if you set the option `version = {0}`. They will be mentioned here shortly but they won't be explained any more. If you'd like a more thorough description ask me for the documentation to version 0.6a.

```
\DeclareAcronym*{<id>}{<short>,<pl>}[<alt>]{<long>,<pl>}{<extra>}[<class>]
% can be used only in preamble

\DeclareAcronymFormat{<id>}{<format>}
% can be used only in preamble
```

B. All Acronyms Used in this Documentation

`\DeclareAcronymCitation{<id>}[<pre>][<post>][<cite keys>]`

% can be used only in preamble

`\DeclareAcronymPDFString{<id>}{<pdf entry>,<plural ending>}`

% can be used only in preamble

B. All Acronyms Used in this Documentation

```
1 \acsetup{
2   list-type    = table,
3   list-style   = longtable,
4   list-heading = subsection*,
5   extra-style  = comma,
6   page-ref     = comma
7 }
8 \printacronyms[name=All Acronyms]
```

All Acronyms

CD	Compact Disc, pp. 8, 9
CTAN	Comprehensive T _E X Archive Network, p. 2
ECU	Steuergerät (Electronic Control Unit), pp. 10, 11
ID	identification string, pp. 4, 5, 13, 17, 18
JPEG	Joint Photographic Experts Group, p. 9
LA	Los Angeles, p. 13
MP	Member of Parliament, p. 9
NATO	North Atlantic Treaty Organization, <i>deutsch</i> : Organisation des Nordatlantikvertrags, pp. 10, 19
NY	New York, pp. 6, 9, 12, 13, 19, 20
PDF	Portable Document Format, pp. 5, 14, 15
SW	Sammelwerk, p. 9
ST	Some Test, p. 5
UFO	unidentified flying object, p. 12

```
1 \acsetup{
2   list-type    = table,
3   list-style   = longtable,
```



```

4 list-heading = subsection*,
5 page-ref     = comma
6 }
7 \printacronyms[include-classes=city,name=City Acronyms]

```

City Acronyms

LA Los Angeles, p. 13
 NY New York, pp. 6, 9, 12, 13, 19, 20

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