

ACRO

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Typeset Acronyms and other Abbreviations

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ACRO allows you to define and manage acronyms and abbreviations. It can also be used for glossaries or nomenclatures.

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Part I.

Get started with **ACRO**

1. Licence

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

2. Glossary

This manual repeatedly uses a number of terms which are explained in this section.

articles Articles are prefixes to acronyms, usually separated with a blank. *Different types of articles are mutually exclusive.*

endings Endings are postfixes to acronyms, usually not separated from the acronym. *Different types of endings are mutually exclusive.*

load-time option A load-time **option** is a package option of **ACRO** which *must* be set as option to `\usepackage[options]{acro}`.

module A **module** is something like a superordinate category for options. There are several such modules like **list** or **pages** for example. Options belonging to a module typically influence certain objects. For instance options belonging to the **pages** influence how page numbers in the list of acronyms are handled.

option An **option** is a package option of **ACRO** which must set with `\acsetup`. It *cannot* be set as option to `\usepackage`. Options usually also can be set in the optional argument of `\ac` and friends.

property A **property** is an option to the second argument of the `\DeclareAcroym` command. They are options of an individual acronym if you will.

template A **template** determines how different objects of **ACRO** are printed. This includes the acronyms themselves but also for example the list of acronyms as a whole.

translations Localisation strings which can be modified.

3. Reading the manual

This manual uses a certain color code in order to be able to distinguish options, properties and templates visually from each other.

4. ACRO for the impatient

`option = {⟨value⟩}`

Options are displayed in yellow. For the description of options a certain nomenclature is used which is explained in section 5. Some options belong to module which are displayed in red.

`property = {⟨value⟩}`

In order to distinguish them visually from options properties are displayed in blue. The nomenclature of properties is quite similar to the one of the options so it is not explained explicitly but should be clear by analogy.

`template`

In order to distinguish them visually from options and properties templates are displayed in green.

4. ACRO for the impatient

Acronyms are defined in the preamble via the command

```
\DeclareAcronym{⟨id⟩}{⟨properties⟩}
```

where $\langle id \rangle$ is a unique string to identify the acronym and $\langle properties \rangle$ is a key/value list of acronym properties. These include:

`short = {⟨text⟩}` (required)

The short form of the acronym. *This property is required:* an acronym must have a short form.

`long = {⟨text⟩}` (required)

The long form of the acronym. *This property is required:* an acronym must have a description.



In its simplest form an acronym needs a short and a long form. Please note that both properties *must* be set.

In the document acronyms are used with these commands:

```
\ac{⟨id⟩} \Ac{⟨id⟩}
```

`\ac` prints the acronym $\langle id \rangle$, the first time with full description and every subsequent use only the abbreviated form. `\Ac` does the same but uppercases the first letter – this may be needed at the beginning of a sentence.

```
\acs{⟨id⟩} \Acs{⟨id⟩}
```

`\acs` prints the short form of the acronym $\langle id \rangle$. `\Acs` does the same but uppercases the first letter.

```
\acl{⟨id⟩} \Acl{⟨id⟩}
```

`\acl` prints the long form of the acronym $\langle id \rangle$. `\Acl` does the same but uppercases the first letter.

5. Setting options

`\acf{⟨id⟩}` `\Acf{⟨id⟩}`

`\acf` prints the full form of the acronym `⟨id⟩`. `\Acf` does the same but uppercases the first letter.

Let's say you defined CD as follows:

```
1 \DeclareAcronym{cd}{
2   short = CD ,
3   long  = compact disc
4 }
```

Then the usage is

```
1 \begin{tabular}{lll}
2   first & & \ac{cd} \\
3   second & & \ac{cd} \\
4   long   & & \acl{cd} \\
5   short  & & \acs{cd} \\
6   full   & & \acf{cd} \\
7 \end{tabular}
```

first	compact disc (CD)
second	CD
long	compact disc
short	CD
full	compact disc (CD)

5. Setting options

5.1. Load-time options

`ACRO` knows only a small set of load-time options which can be used as argument to `\usepackage`:

`upgrade = true|false`

Initial: false

When this option is used `ACRO` tries to give as much helpful and meaningful warning or error messages when a deprecated or removed command, property, or option is used. This is especially useful if you are upgrading from version 2.

You can still use version 2 by specifying using one of the following options:

```
1 \usepackage{acro}[=v2]
2 \usepackage{acro}[=version2]
```

5.2. Setup command

All options of `ACRO` that have *not* been mentioned in section 5.1 have to be set up either with this command

`\acsetup{⟨options⟩}`

or as option to other commands. If the latter is possible then it is described when the corresponding commands are explained. Options usually follow a key/value syntax and are always described in the following way:

option

An option without a value. Those options are very rare if there are any.

`option = {⟨value⟩}`

Initial: preset

An option where a value can be given. The pre-set value is given to the right.

`option = choiceA|choiceB|choiceC`

Initial: choiceB

An option with a determined set of choices. The underlined value is chosen if the option is given without value.

`option = true|false`

A boolean option with the only choices true and false.

module/option

An option at a deeper level belonging to the module `module`.

All of the above is probably clear from an example (using real options):

```
1 \acsetup{
2   make-links = true ,    % boolean
3   index ,              % boolean
4   format = \emph ,     % standard
5   list / local ,       % boolean option of the list module
6   list / display = all % choice option of the list module
7 }
```

Part II.

Comprehensive description of creation and usage of acronyms

6. Declaring acronyms and other abbreviations

All acronyms have to be declared in the preamble with the following command in order to be used in the document. Any usage of an acronym which has not been declared leads to an error message.

`\DeclareAcronym{⟨id⟩}{⟨list of properties⟩}`

The basic command for declaring an acronym where `⟨id⟩` is a unique string identifying the acronym. Per default this is case sensitive which means `id` is different from `ID`, for example.

The command understands a number of properties which are listed in the following sections. This is a comprehensive overview over the existing properties. Many properties are also explained in more detail in later sections of this manual.

6. Declaring acronyms and other abbreviations

`case-sensitive = true|false` Initial: true

When this is set you can write the ID of the acronym upper- or lower- or mixed case and it is recognized by `ACRO` as the same. This might be useful when the acronym appears in the page header, for example.

`case-insensitive = true|false` Initial: false

The inverse of the option `case-sensitive`.

since v3.6
(2022/01/04)



In its simplest form an acronym needs a short and a long form. Please note that both properties *must* be set.

6.1. Basic properties

`short = {<text>}` (required)

The short form of the acronym. *This property is required*: an acronym must have a short form.

Maybe you mostly have simple acronyms where the ID and short form are the same. In that case you can use

`use-id-as-short = true|false` Initial: false

to use the ID of the acronym as short form. For more complicated cases this would still allow you to set the short form.

`long = {<text>}` (required)

The long form of the acronym. *This property is required*: an acronym must have a description.

`alt = {<text>}` (initially empty)

Alternative short form.

`extra = {<text>}` (initially empty)

Extra information to be added in the list of acronyms.

`foreign = {<long form in foreign language>}` (initially empty)

Can be useful when dealing with acronyms in foreign languages, see section 15 on page 24 for details.

`long-post = {<text>}` (initially empty)

`<text>` is appended to the long form of the acronym in the text but not in the list of acronyms.

`post = {<text>}` (initially empty)

`<text>` is appended to the acronym in the text but not in the list of acronyms.

`single = {<text>}` if unused then equal to `long`

If provided `<text>` will be used instead of the long form if the acronym is only used a single time *and* the option `single` has been set, see section 10 on page 15.

6. Declaring acronyms and other abbreviations

`sort = {⟨text⟩}` if unused then equal to `short`
If used the acronym will be sorted according to this property instead of its short form.

`tag = {⟨csv list⟩}` (initially empty)
The tag(s) of an acronym.

`cite = [⟨prenote⟩][⟨postnote⟩]{⟨citation keys⟩}` (initially empty)
A citation that is printed to the acronym according to an option explained later.

`before-citation = {⟨text⟩}` (initially empty)
`⟨text⟩` is prepended to the citation of the acronym when and where the citation is printed.

`index = {⟨text⟩}` (initially empty)
This property allows to overwrite the automatic index entry with an arbitrary one. See section 17.2 on page 28 for details.

`index-sort = {⟨text⟩}` if unused then equal to `sort`
If you use the option `index` every occurrence of an acronym is recorded to the index and sorted by its short form or (if set) by the value of the `sort` property. This property allows to set an individual sorting option for the index. See section 17.2 on page 28 for details.

`index-cmd = {⟨index command⟩}` (initially empty)
This sets the indexing command for the acronym. If unused then the command set by the corresponding option is used. See section 17.2 on page 28 for details.

6.2. Properties related to plural and indefinite forms

`short-plural = {⟨text⟩}` Initial: s
The plural ending appended to the short form.

`short-plural-form = {⟨text⟩}` (initially empty)
The plural short form of the acronym; replaces the short form when used instead of appending the plural ending.

`long-plural = {⟨text⟩}` Initial: s
The plural ending appended to the long form.

`long-plural-form = {⟨text⟩}` (initially empty)
Plural long form of the acronym; replaces the long form when used instead of appending the plural ending.

`alt-plural = {⟨text⟩}` Initial: s
The plural ending appended to the alternative form.

`alt-plural-form = {⟨text⟩}` (initially empty)
The plural alternative form of the acronym; replaces the alternative form when used instead of appending the plural ending.

6. Declaring acronyms and other abbreviations

`foreign-plural = {<text>}` Initial: s
The plural ending appended to the foreign form.

`foreign-plural-form = {<text>}` (initially empty)
Plural foreign form of the acronym; replaces the foreign form when used instead of appending the plural ending.

`short-indefinite = {<text>}` Initial: a
Indefinite article for the short form.

`long-indefinite = {<text>}` Initial: a
Indefinite article for the long form.

`alt-indefinite = {<text>}` Initial: a
Indefinite article for the alternative form.

6.3. Properties related to formatting

`format = {<code>}` (initially empty)
The format used for both short and long form of the acronym.

`short-format = {<code>}` if unused then equal to `format`
The format used for the short form of the acronym.

`long-format = {<code>}` if unused then equal to `format`
The format used for the long form of the acronym.

`first-long-format = {<code>}` if unused then equal to `long-format`
The format used for the first appearance of the long form of the acronym.

`alt-format = {<code>}` if unused then equal to `short-format`
The format used for the alternative form of the acronym. If this is not given the short format will be used.

`extra-format = {<code>}` (initially empty)
The format used for the additional information of the acronym.

`foreign-format = {<code>}` (initially empty)
The format used for the foreign form of the acronym.

`list-format = {<code>}` if unused then equal to `long-format`
The format used for the long form of the acronym in the list if the list template supports it. All pre-defined list templates *do* support it.

`first-style = long-short|short-long|short|long|footnote` (initially empty)
The style of the first appearance of the acronym, see also section 9 on page 14.

`subsequent-style = long-short|short-long|short|long|footnote` (initially empty)
The style of the appearance of the acronym after the first time.

`single-style` = long-short | short-long | short | long | footnote (initially empty)
The style of a single appearance of the acronym, see also section 10 on page 15.

6.4. Properties related to the created PDF file

`pdfstring` = $\{\langle pdfstring \rangle\}$ if unused then equal to `short`
Used as PDF string replacement in bookmarks when used together with the `hyperref` [ORT21] or the bookmark package [Obezo].

`pdfcomment` = $\{\langle text \rangle\}$
Sets a tooltip description for an acronym. For actually getting tooltips you also need an appropriate setting of the options `pdfcomment/cmd` and `pdfcomment/use`, see also section 21.3 on page 33.

`short-acc` = $\{\langle text \rangle\}$ if unused then equal to `short`
Sets the ActualText property as presented by the `accsupp` package for the short form of the acronym.

`long-acc` = $\{\langle text \rangle\}$ if unused then equal to `long`
Sets the ActualText property as presented by the `accsupp` package for the long form of the acronym.

`alt-acc` = $\{\langle text \rangle\}$ if unused then equal to `alt`
Sets the ActualText property as presented by the `accsupp` package for the alternative short form of the acronym.

`foreign-acc` = $\{\langle text \rangle\}$ if unused then equal to `foreign`
Sets the ActualText property as presented by the `accsupp` package for the foreign form of the acronym.

`extra-acc` = $\{\langle text \rangle\}$ if unused then equal to `extra`
Sets the ActualText property as presented by the `accsupp` package for the extra information of the acronym.

`single-acc` = $\{\langle text \rangle\}$ if unused then equal to `long-acc`
Sets the ActualText property as presented by the `accsupp` package for a single appearance of the acronym.

`list-acc` = $\{\langle text \rangle\}$ if unused then equal to `list`
Sets the ActualText property as presented by the `accsupp` package for the appearance in the list of acronyms.

6.5. Further properties

`list` = $\{\langle text \rangle\}$ if unused then equal to `long`
If specified this will be written in the list as description instead of the long form if the corresponding list template supports it.

7. Using acronyms

`foreign-babel = {⟨language⟩}` (initially empty)

The babel [Bra22] or polyglossia [Cha21] language of the foreign form. This language is used to wrap the entry with `\foreignlanguage{⟨language⟩}` if either babel or polyglossia is loaded. You'll need to take care that the corresponding language is loaded by babel or polyglossia.

`foreign-locale = {⟨language⟩}` (initially empty)

The language name that is output when the option `locale/display` is used. If this property is not set then the appropriate value might be derived from `foreign-babel`. See section 15 on page 24 for details.

`preset = {⟨set name⟩}` (initially empty)

since v3.5
(2021/01/16)

Enables to load a set of properties that has been defined earlier with `\NewAcroPreset`, see section 6.6.

`uselist = {⟨csv list of acronym ids⟩}` (initially empty)

since v3.5

If this property is given and all acronyms specified in this property have been used before the first time the current acronym is used it behaves as if it has been used before.

6.6. Presets

since v3.5

Sometimes it can be useful to have different kinds of acronyms or abbreviations or similar which share a common set of properties. Such sets can be defined with these commands:

`\NewAcroPreset{⟨set name⟩}{⟨csv list of properties⟩}`

Defines the property set `⟨set name⟩`. Any valid property can be set in `⟨csv list of properties⟩`.

`\RenewAcroPreset{⟨set name⟩}{⟨csv list of properties⟩}`

Redefines the property set `⟨set name⟩`.

`\DeclareAcroPreset{⟨set name⟩}{⟨csv list of properties⟩}`

Defines or redefines the property set `⟨set name⟩` without checking.

7. Using acronyms

There are a number of commands to use acronyms with. Their names always follow the same pattern which should make their usage intuitive immediately.

All of these commands have a starred form which means “don't count this as usage”. All of these commands also have an optional argument that allows to set options for that usage only.

`\acrocommand* [⟨options⟩] {⟨id⟩}`

This is the general syntax of *all* of the commands listed below. The star and the optional argument is left way for the sake of readability. A command `\acrocommand` does not actually exist.

`\ac{⟨id⟩}` `\Ac{⟨id⟩}` `\acp{⟨id⟩}` `\Acp{⟨id⟩}` `\iac{⟨id⟩}` `\Iac{⟨id⟩}`

`\ac` prints the acronym `⟨id⟩`, the first time with full description and every subsequent use only the abbreviated form. `\Ac` does the same but uppercases the first letter – this may be needed

7. Using acronyms

at the beginning of a sentence. The commands `\acp` and `\Acp`, resp., print the corresponding plural forms. The commands `\iac` and `\Iac`, resp., print indefinite forms.

`\acs{⟨id⟩}` `\Acs{⟨id⟩}` `\acsp{⟨id⟩}` `\Acsp{⟨id⟩}` `\iacs{⟨id⟩}` `\Iacs{⟨id⟩}`
`\acs` prints the short form of the acronym `⟨id⟩`. `\Acs` does the same but uppercases the first letter. The commands `\acsp` and `\Acsp`, resp., print the corresponding plural forms. The commands `\iacs` and `\Iacs`, resp., print indefinite forms.

`\acl{⟨id⟩}` `\Acl{⟨id⟩}` `\aclp{⟨id⟩}` `\Aclp{⟨id⟩}` `\iacl{⟨id⟩}` `\Iacl{⟨id⟩}`
`\acl` prints the long form of the acronym `⟨id⟩`. `\Acl` does the same but uppercases the first letter. The commands `\aclp` and `\Aclp`, resp., print the corresponding plural forms. The commands `\iacl` and `\Iacl`, resp., print indefinite forms.

`\aca{⟨id⟩}` `\Aca{⟨id⟩}` `\acap{⟨id⟩}` `\Acap{⟨id⟩}` `\iaca{⟨id⟩}` `\Iaca{⟨id⟩}`
`\aca` prints the alternative short form of the acronym `⟨id⟩`. `\Aca` does the same but uppercases the first letter. The commands `\acap` and `\Acap`, resp., print the corresponding plural forms. The commands `\iaca` and `\Iaca`, resp., print indefinite forms.

`\acf{⟨id⟩}` `\Acf{⟨id⟩}` `\acfp{⟨id⟩}` `\Acfp{⟨id⟩}` `\iacf{⟨id⟩}` `\Iacf{⟨id⟩}`
`\acf` prints the full form of the acronym `⟨id⟩`. `\Acf` does the same but uppercases the first letter. The commands `\acfp` and `\Acfp`, resp., print the corresponding plural forms. The commands `\iacf` and `\Iacf`, resp., print indefinite forms.

The usage should be clear. Let's assume you have defined an acronym UFO like this:

```
1 \DeclareAcronym{ufo}{
2   short = UFO ,
3   long = unidentified flying object ,
4   foreign = unbekanntes Flugobjekt ,
5   foreign-plural-form = unbekannte Flugobjekte ,
6   foreign-babel = ngerman ,
7   long-indefinite = an
8 }
```

The typical outputs look like this:

```
1 \ac{ufo} \\
2 \iac{ufo} \\
3 \iacl{ufo} \\
4 \Iacf{ufo} \\
5 \acfp{ufo}
```

unidentified flying object (unbekanntes Flugobjekt, UFO)
a UFO
an unidentified flying object

8. Alternative short forms

An unidentified flying object (unbekanntes Flugobjekt, UFO)
unidentified flying objects (unbekannte Flugobjekte, UFOs)



In a number of contexts all acronym commands act as if their starred form is used: in the table of contents, in the list of figures, and in the list of tables. The same is true for floats and the measuring phase of common table environments like `tabularx` or `ltxtable`.

8. Alternative short forms

Sometimes expressions have two different short forms. An example might be JPEG which also often is JPG. This is what the property `alt` is there for.

`alt = {\text}`

Alternative short form.

Let's define JPEG:

```
1 \DeclareAcronym{jpg}{  
2   short = JPEG ,  
3   sort  = jpeg ,  
4   alt   = JPG ,  
5   long  = Joint Photographic Experts Group  
6 }
```

And let's see how to use it:

```
1 \ac{jpg} \\  
2 \ac{jpg} \\  
3 \aca{jpg}
```

Joint Photographic Experts Group (JPEG or JPG)
JPEG
JPG

As you can see the full form shows both short forms of the acronym. This could be changed by altering the template for the full form, see section 25 on page 38 and section 9 on the next page. The alternative form is also printed in the list of acronyms, see section A on page 58. This can also be changed by altering the template for the list, again see section 25.

9. The first or full appearance

If an acronym is used for the first time with `\ac` (after any number of usages with the starred forms of the usage commands listed in section 7 on page 11) or if an acronym is used `\acf`, then the first or full appearance of the acronym is printed.¹

The first or full appearance of an acronym is determined by this option:

`first-style` = long-short|short-long|short|long|footnote Initial: long-short

The style of the first appearance of the acronym. This options sets the appearance for all acronyms. Available options in reality are the names of all defined templates of the type acronym. All pre-defined templates can be found in section 25.1 on page 38.

`subsequent-style` = long-short|short-long|short|long|footnote Initial: short

The style of the appearance of the acronym after the first time. This options sets the appearance for all acronyms. Available options in reality are the names of all defined templates of the type acronym. All pre-defined templates can be found in section 25.1 on page 38.

since v3.4

It might be desirable to set the first appearance of an acronym individually. This is possible by setting the corresponding property:

`first-style` = long-short|short-long|short|long|footnote (initially empty)

The style of the first appearance of the acronym.

Let's again look at an example:

	compact disc (CD)
1 <code>\acf[first-style=long-short]{cd} \</code>	CD (compact disc)
2 <code>\acf[first-style=short-long]{cd} \</code>	CD ^a
3 <code>\acf[first-style=footnote]{cd} \</code>	compact disc
4 <code>\acf[first-style=long]{cd} \</code>	CD
5 <code>\acf[first-style=short]{cd}</code>	<hr style="width: 50%; margin-left: 0;"/> a. compact disc

This also demonstrates the use of the optional argument.

An example of an abbreviation that should have long as first appearance might be “etc.”, defined like this

```

1 \DeclareAcronym{etc}{
2   short = etc\acdote ,
3   long = et cetera ,
4   format = \textit ,
5   first-style = long ,
6   plural =
7 }
```

1. This usually requires at least two \LaTeX runs until it is stable.

10. Single appearances of an acronym

and output like this:

```
1 \ac{etc}, \ac{etc} \ac{etc}.           et cetera, etc. etc.
```

The command `\acdot` is explained in section 19 on page 30. Basically it checks if a dot follows and outputs a dot if not.

10. Single appearances of an acronym

If an acronym is used only once (not counting usages with the starred forms of the usage commands listed in section 7 on page 11), then the single appearance of the acronym is printed.²

The single appearance of an acronym is determined by this option:

`single = true|false|⟨number⟩` Initial: false

This option determines whether a single appearance of an acronym counts as *usage*. It might be desirable in such cases that an acronym is simply printed as long form and not added to the list of acronym. This is what this option does. With `⟨number⟩` the minimal number of usages can be given that needs to be exceeded. `single = {1}` is the same as `single = {true}`.

`single-style = long-short|short-long|short|long|footnote` Initial: long

The style of the single appearance of an acronym. Can be used to determine how a single appearance is printed if the option `single` has been set. This option sets the appearance for all acronyms. Available options in reality are the names of all defined templates of the type acronym. All pre-defined templates can be found in section 25.1 on page 38.

If you like you can also set the single appearance of an acronym individually:

`single = {⟨text⟩}` (initially empty)

If provided `⟨text⟩` will be used instead of whatever template (“style”) has been set for the single appearance if the acronym is only used a single time *and* the option `single` has been set.³

`single-style = long-short|short-long|short|long|footnote` (initially empty)

The style of the single appearance of the acronym.

Let’s again look at an example. The acronym PNG is defined as follows:

```
1 \DeclareAcronym{png}{
2   short = PNG ,
3   long  = Portable Network Graphics ,
4   first-style = short-long ,
5   single-style = short
6 }
```

2. This usually requires at least two \LaTeX runs until it is stable.

3. Actually the template `single` is used which typesets the `single` property.

And it is used only once in this manual⁴:

```
\ac{png}           PNG
```

Please be aware that `\acf` would still print the full form, of course.

11. Printing the list

11.1. The main command and its options

The main idea is simple: just place

```
\printacronyms[options]
```

where you want the list to appear. It may require several (most times two) \LaTeX runs for it to stabilize so look out for any warnings from `ACRO` requiring to re-run.

The options controlling the list are these:

`list/template` = `description|tabular|longtable|supertabular|tabularray|initial|description`
 Choose the template to create the list with. See more on this in sections 25 on page 38 and A on page 54.

`list/sort` = `true|false` Initial: `true`
 Decide whether to sort the list of acronyms alphabetically or to print it in order of definition.

`list/display` = `all|used` Initial: `used`
 Decide whether to print only the acronyms actually used in the document or all acronyms which have been declared in the preamble.

`list/exclude` = `{<csv list of tags>}` (initially empty)
 Set a list of tags to exclude from the list. Only acronyms not belonging to one of these tags will be included.

`list/include` = `{<csv list of tags>}` (initially empty)
 Set a list of tags to include in the list. Only acronyms belonging to one of these tags will be included.

`list/add` = `true|false` (initially empty)
since v3.4 Set a list of tags to include in the list. These acronyms will be included in any case.

`list/heading` = `none|section|section*|chapter|chapter*`
 Choose the heading template for the list of acronyms.
 This only has an effect if the list template supports it. All pre-defined templates *do* support it.

⁴. You will find it in the list of acronyms in section A nonetheless as this document does `list/display = {all}`.

11. Printing the list

`list/name = {⟨text⟩}` Initial: `\acrotranslate{list-name}`

Overwrites the text which is used in the heading.

This only has an effect if the list template supports heading templates *and* the heading templates support it. All pre-defined heading templates *do* support this.

`list/preamble = {⟨text⟩}` (initially empty)

Set a preamble to be placed between heading and actual list.

This only has an effect if the list template supports it. All pre-defined templates *do* support it.

`list/locale/display = true|false` Initial: `false`

This options determines whether the language of the foreign form is printed or not.

This only has an effect if the list template supports foreign forms. All pre-defined templates *do* support them.

All these options can be set with `\acsetup` globally or locally as options to `\printacronyms`. In the latter case omit the leading `list`:

```
1 \acsetup{list/display=all,list/exclude=units}
2 or
3 \printacronyms[display=all,exclude=units]
```

11.2. Add page numbers to the list

If you want to include the page numbers where the acronyms have been used in the list of acronym you can use these options:

`pages/display = first|all|none` Initial: `none`

Decide whether to include page numbers in the list of acroynms and whether to add the first page or every page. When you choose `first` and have `hyperref` loaded you will also get a backlink to that page.

`pages/seq/use = true|false` Initial: `true`

Turns a two-page range into $\langle num \rangle$ f. (*sequens*) and a three-page range into $\langle num \rangle$ ff. (*sequentes*) when set to `true`.

`pages/seq/pre = {⟨code⟩}` Initial: `\,`
 $\langle code \rangle$ is inserted between the page number and the *sequens* or *sequentes* symbol.

`pages/seq/threshold = {⟨num⟩}` Initial: `3`

The threshold for a page range to be turned into *sequentes*. A page range above the threshold is still typeset as a range: $\langle num_1 \rangle - \langle num_2 \rangle$.

`pages/fill = {⟨code⟩}` Initial: `\acrodotfill`

This is the code that is placed between acronym description and actual page numbers.

11. Printing the list

`pages/name = true|false`

Initial: false

If set to true the page numbers are preceded with p. or pp.

`\acrodotfill`

since v3.5

Creates a dotted line like those in the table of contents. If the macro `\cftdotfill` is defined it is equal to `\cftdotfill{\cftdotsep}`.

since v3.3

(2020/11/21)

Additionally to setting these options with `\acsetup` they can be set as options to `\printacronyms`:

```
1 \printacronyms[pages={display=all,seq/use=false}]
```

11.3. Filter lists using tags

With the property `tag` you can assign one or more tags to an acronym. These tags can be used to filter the list of acronyms.

`tag = {<csv list>}`

(initially empty)

The tag(s) of an acronym.

`list/exclude = {<csv list of tags>}`

(initially empty)

Set a list of tags to exclude from the list. Only acronyms not belonging to one of these tags will be included.

`list/include = {<csv list of tags>}`

(initially empty)

Set a list of tags to include in the list. Only acronyms belonging to one of these tags will be included.

Let's look at an example. This manual declares these two acronyms with the tag `city`:

```
1 \DeclareAcronym{la}{
2   short = LA ,
3   long = Los Angeles,
4   plural = ,
5   tag = city
6 }
7 \DeclareAcronym{ny}{
8   short = NY ,
9   long = New York ,
10  plural = ,
11  tag = city
12 }
```

We can now use this to either print a list *without* these acronyms by saying

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```
1 \printacronyms[exclude=city]
```

or print a list *with only* these acronyms with

```
1 \printacronyms[include=city,heading=none]
```

LA Los Angeles

NY New York27

If you use both **exclude** and **include** and list a tag in both **exclude** takes precedence over **include**.



```
1 \printacronyms[exclude={a,b},include={b,c}]
```

would only print acronyms with tag c.

11.4. Local lists

Maybe you like a list of acronyms for each chapter in a book which only lists the acronyms used within this chapter. You need to do three things: set

barriers/use = **true**|**false**

Initial: **false**

this option to **true**, place

\acbarrier

before a new chapter starts (this is not necessary for the first chapter), and use **\printacronyms** with the option

list/local = **true**|**false**

Initial: **false**

or set this option once in the preamble with **\acsetup** so it is applied to every list.

Please read more on barriers in section 18 on page 29.



Please don't use page numbers together with local lists for the time being. If an acronym appears in more than one list both lists would contain the *same* page numbers instead of only the ones local to barriers.

For the similar reasons please also don't use **make-links** together with local lists.

This *might* be resolved on day.

12. Formatting

ACRO has a number of options and parameters which can be used to influence the formatting of acronyms.

`format = {⟨code⟩}` (initially empty)

Sets the format for both the short and the long form.

`format/short = {⟨code⟩}` (initially empty)

Sets the format for the short form.

`format/long = {⟨code⟩}` (initially empty)

Sets the format for the long form.

`format/first-long = {⟨code⟩}` (initially empty)

Sets the format for the first appearance of the long form.

`format/alt = {⟨code⟩}` (initially empty)

Sets the format for the alternative form.

`format/extra = {⟨code⟩}` (initially empty)

Sets the format for the extra information.

`format/foreign = {⟨code⟩}` (initially empty)

Sets the format for the foreign form.

`format/list = {⟨code⟩}` (initially empty)

Sets the format for the long form in the list form.

While this options influence the formatting of the acronyms globally you can also give each acronym its own formatting individually:

`format = {⟨code⟩}` (initially empty)

The format used for both short and long form of the acronym.

`short-format = {⟨code⟩}` if unused then equal to `format`

The format used for the short form of the acronym.

`long-format = {⟨code⟩}` if unused then equal to `format`

The format used for the long form of the acronym.

`first-long-format = {⟨code⟩}` if unused then equal to `long-format`

The format used for the first appearance of the long form of the acronym.

`alt-format = {⟨code⟩}` if unused then equal to `short-format`

The format used for the alternative form of the acronym. If this is not given the short format will be used.

`extra-format = {⟨code⟩}` (initially empty)

The format used for the additional information of the acronym.

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`foreign-format = {<code>}` (initially empty)

The format used for the foreign form of the acronym.

`single-format = {<code>}` if unused then equal to `long-format`

The format used for the acronym if the acronym is only used a single time.

`list-format = {<code>}` if unused then equal to `long-format`

The format used for the long form of the acronym in the list if the list template supports it. All pre-defined list templates *do* support it.

`first-style = long-short|short-long|short|long|footnote` (initially empty)

The style of the first appearance of the acronym, see also section 9 on page 14.

`single-style = long-short|short-long|short|long|footnote` (initially empty)

The style of a single appearance of the acronym, see also section 10 on page 15.

Changed in
version v3.3

Per default the individual formatting instructions *replace* the global ones. This can be changed through the option

`format/replace = true|false` Initial: true

With this option active local options will *replace* the global ones.

Let's see an example:

```
1 \DeclareAcronym{pdf}{
2   short = pdf ,
3   long = Portable Document Format ,
4   short-format = \scshape
5 }
```

```
1 \acsetup{format = \itshape}
2 \acf{pdf} \par
3 \acsetup{format/replace=false}
4 \acf{pdf}
```

Portable Document Format (PDF)

Portable Document Format (PDF)

13. Plural forms and other endings

13.1. The plural ending and the plural form

Not in all languages plural forms are as easy as always appending an “s”. Not even English. Sometimes there's other endings instead.⁵ This is why **ACRO** has quite a number of different

5. German is full of such examples.

13. Plural forms and other endings

properties related to plural forms or endings:

`short-plural = {⟨text⟩}` Initial: s

The plural ending appended to the short form.

`short-plural-form = {⟨text⟩}` (initially empty)

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

`long-plural = {⟨text⟩}` Initial: s

The plural ending appended to the long form.

`long-plural-form = {⟨text⟩}` (initially empty)

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

`alt-plural = {⟨text⟩}` Initial: s

The plural ending appended to the alternative form.

`alt-plural-form = {⟨text⟩}` (initially empty)

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

`foreign-plural = {⟨text⟩}` Initial: s

The plural ending appended to the foreign form.

`foreign-plural-form = {⟨text⟩}` (initially empty)

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

There are two options which allow to change the default values for the whole document:

`short-plural-ending = {⟨text⟩}` Initial: s

Defines the plural ending for the short forms to be `⟨text⟩`.

`long-plural-ending = {⟨text⟩}` Initial: s

Defines the plural ending for the long forms to be `⟨text⟩`.

Now let's see two simple examples demonstrating the two different kinds of plural settings:

```
1 \DeclareAcronym{sw}{
2   short = SW ,
3   long = Sammelwerk ,
4   long-plural = e
5 }
6 \DeclareAcronym{MP}{
7   short = MP ,
8   long = Member of Parliament ,
```

```

9 plural-form = Members of Parliament
10 }

```

The first one has another plural ending than the usual “s”. The second one has a different plural form altogether because appending an “s” would give a wrong form:

```

1 \acfp{sw} \par           Sammelwerke (SWs)
2 \acfp{MP}                Members of Parliament (MPs)

```

13.2. Other endings

Besides plural endings there are other ones like the genitive case, for example. This is why **ACRO** generalized the concept. Section 26 on page 46 explains in detail how to define and use additional endings.

14. Articles

14.1. Indefinite forms

Indefinite forms can be a problem if the short and the long form of acronyms have different indefinite articles.⁶

```

1 \acreset{ufo}%          a unidentified flying object (unbekanntes
2 a \ac{ufo} \par        Flugobjekt, UFO)
3 an \ac{ufo}             an UFO

```

And what good would it be to use a package like **ACRO** if you have to keep track of first and second uses, anyway? This is why UFO should be defined like we did on page 12. We then can just use the dedicated commands and let them decide for us:

```

1 \acreset{ufo}%          an unidentified flying object (unbekanntes
2 \iac{ufo} \par        Flugobjekt, UFO)
3 \iac{ufo}              a UFO

```

The commands which also output the indefinite article all start with an “i” and have all been described in section 7 on page 11 already: `\iac`, `\Iac`, `\iacs`, `\Iacs`, `\iacI`, `\IacI`, `\iaca`, `\Iaca`, `\iacf`, and `\Iacf`.

⁶. This may very well be a language specific issue.

14.2. Other articles

There might be cases – most likely depending on your language – when you would like to have other articles behaving similar to the indefinite ones. Section 27 explains in detail how to define and use additional articles.

15. Foreign language acronyms

Sometimes and in some fields more often than in others abbreviations are used that are derived from another language. **ACRO** provides a number of properties for such cases:

`foreign` = $\{\langle long\ form\ in\ foreign\ language\rangle\}$ (initially empty)

Can be useful when dealing with acronyms in foreign languages, see section 15 for details.

`foreign-plural` = $\{\langle text\rangle\}$ Initial: s

The plural ending appended to the foreign form.

`foreign-plural-form` = $\{\langle text\rangle\}$ (initially empty)

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

`foreign-format` = $\{\langle code\rangle\}$ (initially empty)

The format used for the foreign form of the acronym.

`foreign-babel` = $\{\langle language\rangle\}$ (initially empty)

The babel or polyglossia language of the foreign form. This language is used to wrap the entry with `\foreignlanguage{\langle language\rangle}` if either babel or polyglossia is loaded. You'll need to take care that the corresponding language is loaded by babel or polyglossia.

`foreign-locale` = $\{\langle language\rangle\}$ (initially empty)

The language name that is output when the option `locale/display` is used. If this property is not set then the appropriate value might be derived from `foreign-babel`.

There are also some options:

`foreign/display` = `true|false` Initial: true

Determine whether to hide or display the foreign form.

`list/foreign/display` = `true|false` Initial: true

since v3.2
(2020/05/10)

Determine whether to hide or display the foreign form in the list of acronyms.

`locale/display` = `true|false` Initial: false

This options determines whether the language of the foreign form is printed or not when the full form of the acronym is printed.

`list/locale/display` = `true|false` Initial: false

The same but for the list of acronyms.

15. Foreign language acronyms

`locale/format = {⟨code⟩}`

Initial: `\em\text_titlecase_first:n`

Determines how said language is formatted when printed. The last command in `⟨code⟩` may take a mandatory argument.

Let's say you are writing a German document and are using the abbreviation ECU for Steuergerät which stems from the English "Electronic Control Unit". Then you can define it as follows:

```
1 \DeclareAcronym{ecu}{
2   short   = ECU ,
3   long    = Steuergerät ,
4   foreign = Electronic Control Unit ,
5   foreign-babel = english ,
6   foreign-locale = englisch
7 }
```

Now the abbreviation is introduced so that everyone understands the confusion:

```
1 \ac{ecu} \par
2 \acsetup{locale/display,locale/format=\emph}
3 \acf{ecu}
```

Steuergerät (Electronic Control Unit, ECU)
Steuergerät (*englisch*: Electronic Control Unit, ECU)

The property `foreign-babel` is used for ensuring correct hyphenation as long as you use `babel` or `polyglossia` and load the corresponding language, too. If you are writing your document in English then `ACRO` is able to deduce the language used for the "locale" field by itself:

```
1 \DeclareAcronym{eg}{
2   short = e.g\acdot ,
3   long  = for example ,
4   foreign = exempli gratia ,
5   foreign-babel = latin ,
6   short-format = \textit ,
7   foreign-format = \textit
8 }
```

```
1 \acsetup{locale/display,first-style=short-long}
2 \acf{eg}
```

e.g. (Latin: *exempli gratia*, for example)

16. Uppercasing

Depending on the kind of abbreviations you have and depending on their definition and maybe also depending on your language the long and sometimes also the short forms need to start with an uppercase letter at the beginning of a sentence while it starts with a lowercase letter otherwise.

For this `ACRO` provides uppercase versions for all predefined acronym commands listed in section 7. The usage is self-explaining:

```
1 There was \iacl{ufo} hovering \dots \par
2 \Aclp{ufo} were hovering \dots
```

There was an unidentified flying object hovering ...
Unidentified flying objects were hovering ...

If you defined them with uppercase letters to begin with then these commands have no effect, of course.

```
1 \DeclareAcronym{ufo}{
2   short = UFO ,
3   long = Unidentified Flying Object
4 }
```

There are a number of options to control the uppercasing behavior:

`uppercase/first`

The default setting. Converts the first letter to uppercase.

`uppercase/title`

This is just a synonym of `first`.

`uppercase/all`

Converts *all* letters to uppercase.

`uppercase/none`

Converts *all* letters to *lowercase*

`uppercase/cmd = {<command>}`

All of the above options just choose the right command using this option internally. This means you can choose a different behavior altogether by setting this option to something else. For

example you could use `\capitalisewords` from the package `mfirstuc` [Tal21]. The command needs to have one mandatory argument.

There may be reasons to exclude short forms from being uppercased. This can be controlled by this option:

`uppercase/short = true|false` Initial: `true`

It allows you to disable the mechanism for the `short` and `alt` properties.

17. Citing and indexing

17.1. Citing

Acronyms can be given cite keys. This makes it possible to add a citation reference automatically when the acronym is used for the first time.

Let's see an example first. NY has been defined like this:

```
1 \DeclareAcronym{ny}{
2   short = NY ,
3   long = New York ,
4   plural = ,
5   tag = city ,
6   cite = NewYork
7 }
```

The property `cite` will now trigger `ACRO` to input `\cite{NewYork}` after the acronym:

```
1 \ac{ny} New York (NY) [Wik20]
```

Depending on the citation style (and probably other factors, too) it might be desirable to add the citation rather inside the parentheses together with the short form of the acronym and even cited with a different command. For cases like these `ACRO` offers a number of options:

`cite/cmd = {<citation command>}` Initial: `\cite`

Choose the command with which citations are printed.

`cite/group = true|false` Initial: `false`

Decide whether to group citations with the short form in the parentheses. The template must support this. `ACRO`'s pre-defined templates *do* support it.

`cite/display = first|all|none` Initial: `first`

Decide whether to output the citation in the first/full usage only or always or never.

`cite/pre = {<text>}` Initial: `\nobreakspace`

Arbitrary code directly output before the citation.

`cite/group/cmd` = $\{\langle citation\ command\rangle\}$ Initial: `\cite`
 Choose the command with which grouped citations are printed.

`cite/group/pre` = $\{\langle text\rangle\}$ Initial: `,_`
 Arbitrary code directly output before the citation in the grouped case.

If for example you use biblatex's authoryear style [Leh+22] you might want to have settings like these:

```
1 \acsetup{
2   cite/group = true ,
3   cite/cmd = \parencite ,
4   cite/group/cmd = \cite
5 }
```

```
1 \acsetup{cite/display = all}
2 \acf{ny} \
3 \ac{ny}
```

New York (NY, Wikipedia 2020)
 NY (Wikipedia 2020)

17.2. Indexing

Maybe you want to add your acronyms to an index. In that case it is probably desirable to let **ACRO** make this automatically. In the simplest case just enable it:

`index/use` = `true|false|indexed` Initial: `false`
 Changed in version v3.5 Enable indexing. If `indexed` is chosen only the acronyms for which the property `index` has been set are indexed. With `true` *all* acronyms are indexed.

`index/cmd` = $\{\langle index\ command\rangle\}$ Initial: `\index`
 Choose a command for indexing.

`index/disable` = $\{\langle code\rangle\}$ Initial: `\def\@{}`
 Sometimes it is desirable to change the meaning of a command inside an index entry. For the entries created by **ACRO** this can be achieved with this option.

`index/clear`
 This option clears the disable list.

While these options set global behavior there are also properties to set them for an acronym individually.

`index = {\langle text \rangle}` (initially empty)

This property allows to overwrite the automatic index entry with an arbitrary one.

`index-sort = {\langle text \rangle}` if unused then equal to `sort`

If you use the option `index` every occurrence of an acronym is recorded to the index and sorted by its short form or (if set) by the value of the `sort` property. This property allows to set an individual sorting option for the index.

`no-index = true|false` Initial: `true`

This property allows to exclude an acronym from being indexed.

This manual is an example for the indexing feature. Each acronym from section A on page 58 that has been used in this manual is also listed in the index.

18. Barriers

The main purpose of the concept of barriers is to be able to have *local* lists of acronyms. This concept does a little bit more than that, though, which should become clear from the following options:

`barriers/use = true|false` Initial: `false`

Activate usage of barriers. Otherwise the command `\acbarrier` just does nothing except writing a warning in the log.

`barriers/reset = true|false` Initial: `false`

When set to `true` the acronym usage is reset for all acronyms at a barrier. The first use of `\ac` after a barrier will again look like the `\acf`.

`barriers/single = true|false` Initial: `false`

When set to `true` a single usage of an acronym between two barriers with `\ac` will look according to the chosen style as explained in section 10 on page 15. This option only has an effect when the option `single` is used as well.

There are two natural barriers in a document: `\begin{document}` and `\end{document}`. You can add an arbitrary number of additional barriers with

`\acbarrier`

For this command to have any effect you must set `barriers/use` to `true`!



It usually takes two or even three L^AT_EX runs until acronym usages between barriers are properly counted.

19. Trailing tokens

19.1. What is it about?

ACRO has the possibility to look ahead for certain tokens and switch a boolean variable if it finds them. Per default **ACRO** knows about three tokens: the “dot” (.), the “dash” (-) and the “babel-hyphen” (`\babelhyphen`).

You have seen an example for this already:

```

1 \DeclareAcronym{etc}{
2   short = etc\acdot ,
3   long = et cetera ,
4   format = \textit ,
5   first-style = long ,
6   plural =
7 }
```

The macro `\acdot` recognizes if a dot is directly following. It only prints a dot if it doesn't.

```

1 \ac{etc} and \ac{etc}.           etc. and etc.
```

Another example: let's say you're a German scientist, you have

```

1 \DeclareAcronym{PU}{
2   short = PU ,
3   long = Polyurethan ,
4   long-plural = e
5 }
```

and you use it the first time like this: `\ac{PU}-Hartschaum` then according to German orthography and typesetting rules this should be printed as

“Polyurethan(PU)-Hartschaum”

i. e., with *no* space between long and short form:

```

1 \acf{PU}-Hartschaum           Polyurethan(PU)-Hartschaum
```

This works because the template `long-short`⁷ uses `\acspace` at the appropriate place and the manual setup does

⁷ The template that is used by default for the first appearance.

```
1 \acsetup{trailing/activate = dash}
```

`\acspace` looks ahead for a trailing dash and adds a space if it doesn't find it.

19.2. How does it work?

Tokens to look for can be defined and activated through the following options:

`trailing/define = <token>{<name>}`

Defines token `<name>` and tells `ACRO` look for `<token>` if `<name>` is activated.

`trailing/activate = {<csv list of token names>}`

Tell `ACRO` to look for trailing tokens. This is done by giving a csv list of the internal *names* of the tokens. Per default only dot is activated.

`trailing/deactivate = {<csv list of token names>}`

Tell `ACRO` not to look for trailing tokens. This is done by giving a csv list of the internal *names* of the tokens.

The package itself does this:

```
1 \acsetup{
2   trailing/define   = . {dot} ,
3   trailing/define   = {, {comma}} ,
4   trailing/define   = - {dash}
5   trailing/define   = \babelhyphen {babel-hyphen} ,
6   trailing/activate = {dot,comma}
7 }
```

In order to make use of this mechanism there is the following command:

* `\aciftrailing{<csv list of token names>}{<true>}{<false>}`

Check if one of the tokens listed in `<csv list of token names>` is following and either place `<true>` or `<false>` in the input stream.

This command is used to define the two commands you already know:

* `\acdot`

Inserts `\abbrdot` if no dot follows.

* `\acspace`

Inserts a `\space` if no dash or `babel-hyphen` follows.

* `\abbrdot`

Inserts `.\@`

The definitions are equivalent to the following code:

```

1 \newcommand*\acdot{\aciftrailing{dot}}{\abbrdot}}
2 \newcommand*\acspace{\aciftrailing{dash, babel-hyphen}}{\space}}

```

You are of course free to redefine them according to your needs.

20. Using or resetting acronyms

Sometimes it is necessary to mark an acronym as used before it actually has been used or to mark an acronym as unused even though it *has* been used. You have already seen one of the commands which make it possible:

`\acuse{⟨csv list of acronym ids⟩}`

Every acronym given in the list will be marked as used.

`\acuseall`

Every acronym is marked as used.

`\acreset{⟨csv list of acronym ids⟩}`

Every acronym given in the list will be reset.

`\acresetall`

Every acronym will be reset.



In a number of contexts all acronym commands act as if their starred form is used: in the table of contents, in the list of figures, and in the list of tables. The same is true for floats and the measuring phase of common table environments like `tabularx` or `ltxtable`.

21. Bookmarks, backlinks and accessibility support

21.1. Backlinks

When `ACRO` is used together with the package `hyperref` [ORT21] then you can make use of the following option:

`make-links = true|false`

Initial: false

If this is activated then every short or alternative appearance of an acronym will be linked to its description in the list of acronyms.

`link-only-first = true|false`

Initial: false

If this is activated in addition to `make-links` then *only the first* short or alternative appearance of an acronym will be linked to its description in the list of acronyms.

since v3.5



This will fail miserably together with local lists if an acronym appears in more than one list. This *might* be resolved on day.

21.2. Bookmarks

Since bookmarks (which are created by the `hyperref` or the `bookmark` packages [Obe20]) can only contain simple text `ACRO` simplifies the output of the acronym commands when they appear in a bookmark. Although the output can be modified with a dedicated template-mechanism there is no user interface at the moment. Contact me at <https://github.com/cgnieder/acro/issues> if you need it.

Acronyms have the property `pdfstring`:

`pdfstring = {\langle pdfstring \rangle}` if unused then equal to `short`

Used as PDF string replacement for the short form in bookmarks when used together with the `hyperref` [ORT21] or the `bookmark` package [Obe20].

This is for acronyms like

```

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

where the bookmark would write “pdf” instead of “PDF” if the property were not set.

21.3. PDF comments

Some people like see comments in the PDF when they’re hovering with the mouse over the short form of an acronym. This can be achieved.

`pdfcomments/use = true|false` Initial: `false`

This enables the creation of PDF comments.

`pdfcomments/cmd = {\langle code \rangle}` Initial: `\pdftooltip{#1}{#2}`

Chooses the command for actually creating the comment. You must refer to the printed output in the PDF with #1 and to the comment with #2. The default command `\pdftooltip` is provided by the package `pdfcomment` [Kle18]. You must load it in order to use it.

Only acronyms where the corresponding property has been set will get comments:

`pdfcomment = {\langle text \rangle}`

Sets a tooltip description for an acronym.

21.4. Accessibility support

ACRO supports the `accsupp` package [Obe19] when you *also load hyperref*. Then **ACRO** uses

```
1 \BeginAccSupp{ method = pdfstringdef , ActualText = {PDF} }
2   \textsc{pdf}%
3 \EndAccSupp{}%
```

for an acronym defined like this:

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

Without accessibility support when a string like “PDF” is copied from the PDF and pasted you get “pdf”. If you don’t care about that simply don’t load `accsupp` and ignore this section.

You have a few options to be able to manipulate what **ACRO** does here but I recommend to stay with the default settings:

`accsupp/use = true|false` Initial: true

When this is true and the package `accsupp` is loaded then accessibility support is used.

`accsupp/options = {\langle text \rangle}` (initially empty)

Additional option to be passed to `\BeginAccSupp`. See the `accsupp` manual for possible settings.

`accsupp/method = {\langle method \rangle}` Initial: `pdfstringdef`

The method used by `\BeginAccSupp`. See the `accsupp` manual for possible values.

The “ActualText” that is used by **ACRO** always defaults to the values of the acronym properties themselves. You can choose these values individually by setting the corresponding properties:

`short-acc = {\langle text \rangle}` if unused then equal to `short`

Sets the ActualText property as presented by the `accsupp` package for the short form of the acronym.

`long-acc = {\langle text \rangle}` if unused then equal to `long`

Sets the ActualText property as presented by the `accsupp` package for the long form of the acronym.

`alt-acc = {\langle text \rangle}` if unused then equal to `alt`

Sets the ActualText property as presented by the `accsupp` package for the alternative short form of the acronym.

`foreign-acc = {⟨text⟩}` if unused then equal to `foreign`
 Sets the ActualText property as presented by the accsupp package for the foreign form of the acronym.

`extra-acc = {⟨text⟩}` if unused then equal to `extra`
 Sets the ActualText property as presented by the accsupp package for the extra information of the acronym.

`single-acc = {⟨text⟩}` if unused then equal to `long-acc`
 Sets the ActualText property as presented by the accsupp package for a single appearance of the acronym.

`list-acc = {⟨text⟩}` if unused then equal to `list`
 Sets the ActualText property as presented by the accsupp package for the appearance in the list of acronyms.

Extra care has to be taken for plural forms as these can not be picked up automatically right now. You have to explicitly set them for the accessibility support, too:

```

1 \DeclareAcronym{ufo}{
2   short = UFO ,
3   long = unidentified flying object ,
4   foreign = unbekanntes Flugobjekt ,
5   foreign-plural-form = unbekannte Flugobjekte ,
6   foreign-acc-plural-form = unbekannte Flugobjekte ,
7   foreign-babel = ngerman ,
8   long-indefinite = an
9 }
```



Please note that this mechanism is disabled for inner acronyms if you have nested definitions.

22. Localisation

There are places when `ACRO` uses text strings which depend on the language of the document. In order to recognize the language from `babel` or `polyglossia` and print the strings in the correct language `ACRO` uses the translations [Nie22].

If the language is detected incorrectly or you want `ACRO` to use another language than it detects you can use the following option:

`language = auto|⟨language⟩` Initial: `auto`

The default setting `auto` lets `ACRO` detect the language setting automatically. Valid choices are all language names known to the package translations. Mostly just type your language and it should work.

Key	English	French	German
list-name	Acronyms	Acronymes	Abkürzungen
page	p.	p.	S.
pages	pp.	p.	S.
sequens	f.	sq.	f.
sequentes	ff.	sqq.	ff.
also	also	aussi	auch
or	or	ou	oder
and	and	et	und

TABLE 1: Available translation keywords.

ACRO only provides support for a handful of languages. You can easily teach **ACRO** your language – see section 28 on page 48 – if it isn't supported, yet.⁸

*`\acrotranslate{⟨key⟩}`

This command fetches the translation of `⟨key⟩` for the current language. It is meant for usage in template definitions.

Available keywords and their English, French, and German translations are shown in table 1.

23. Patches

In several situations it can lead to wrong results if **ACRO** marks an acronym as used too early or at all. This is why it is possible to disable the mechanism which is responsible:

`\acswitchoff`

This disables the mechanism which marks acronyms as used. After this command every acronym command like `\ac` acts like its starred version.

`\acswitchon`

This command enables the mechanism again.

In certain circumstances **ACRO** uses these commands itself. For example it is often preferable that acronyms are not counted as used in floats, the table of contents or the lists of figures and tables. This is why **ACRO** turns the mechanism off in these places.

Certain table environments typeset their contents twice for measurement purposes. **ACRO** tries to disable the usage mechanism during these phases. The same is true for single line captions from the caption package.

All these patches can be turned off:

`patch/floats = true|false`

Initial: true

En-/disable the `floats` patch.

8. If you like you can always open an issue at <https://github.com/cgnieder/acro/issues> and provide your translations so I can add them to **ACRO**.

	<code>patch/lists = true false</code>	Initial: true
	En-/disable the <code>lists</code> patch for the table of contents, the list of figures and the list of tables.	
	<code>patch/tabularx = true false</code>	Initial: true
	En-/disable the <code>tabularx</code> patch.	
since v3.7 (2022/01/27)	<code>patch/longtable = true false</code>	Initial: true
	En-/disable the <code>longtable</code> patch.	
	<code>patch/ltxtable = true false</code>	Initial: true
	En-/disable the <code>ltxtable</code> patch.	
	<code>patch/tabu = true false</code>	Initial: true
	En-/disable the <code>tabu</code> patch.	
	<code>patch/caption = true false</code>	Initial: true
	En-/disable the <code>caption</code> patch.	
since v3.6	<code>patch/maketitle = true false</code>	Initial: true
	En-/disable the <code>maketitle</code> patch.	

Part III.

Extending ACRO

24. Background

24.1. Templates

One of the core ideas of `ACRO` version 3.0 is the use of *templates* which manage how different how anything is printed, from the output of `\ac` and friends to the list of acronyms. `ACRO` uses three types of templates:

acronym These templates can be used to define *acronym commands*, see section 30 on page 50.

list These templates are used by the `\printacronyms` command.

heading These templates only make sense if a *list* template uses `\acroheading`. This command makes use of them.

How these templates are defined, which are available from the start and how they are used is explained in section 25 on the following page.

24.2. Objects

ACRO uses certain kinds of objects in some of its commands. It is possible to define own such objects:

articles Per default only the “indefinite” article is defined. But it is possible to define and add other articles to **ACRO**. This is explained in section 14.2 on page 24.

endings Per default only the ending “plural” is defined. But it is possible to define and add other endings to **ACRO**. This is explained in section 13.2 on page 23.

properties You have already learned about properties. It is possible to define and add further acronym properties to **ACRO**. This is explained in section 29 on page 49.

translations **ACRO** uses localisation strings at a number of places. It is possible to change these strings and add further strings. This is explained in section 22 on page 35.

25. Templates

25.1. Pre-defined templates

25.1.1. Acronym templates

alt

Display the alternative form of an acronym.

first

This is a *pseudo* template which always displays what is set through the option `first-style` or the property `first-style`.

footnote

A template for the first appearance where the long form is printed in a footnote. This template also contains a command `\acroendfootnote` at the end of the footnote text which in its default definition does nothing.

since v3.7

long

Display the long form of an acronym.

long-short

A template for the first appearance where the long form is printed and the short form follows in parentheses.

short

Display the short form of an acronym.

short-long

A template for the first appearance where the short form is printed and the long form follows in parentheses.

single

A template which is used when the property `single` has been set *and* the option `single` has been set *and* if the acronym is only used a single time.

show

A template which writes all properties of an acronym into the log file.

*25.1.2. List templates**description*

The default list style which places the short form in the item of a description environment and adds the all the rest as description of the item.

lof

A style which mimicks the list of figures. This style does not support page ranges.

longtable

A style that uses a `longtable` environment for building the list. This needs the `longtable` package [Car21] loaded.

supertabular

since v3.2

A style that uses a `supertabular` environment for building the list. This needs the `supertabular` package [BJ20] loaded.

tabularray

☆ New

A style that uses a custom table environment `actblr` based on `longtblr`. This needs the `tabularray` package [Lyu21] loaded.

tabular

A style that uses a `tabular` environment for building the list. Since a `tabular` cannot break across pages this is only suited for short lists.

toc

A style which mimicks the table of contents. This style does not support page ranges.

The templates *tabular*, *longtable*, and *supertabular* support the following option:

`templates/colspec = {⟨value⟩}` Initial: `>{\bfseries}lp{.7\linewidth}`

☆ New

It enables you to easily adjust the column specification of the standard table templates to your needs. *Please be aware that you need exactly two columns.*

*25.1.3. Heading templates**addchap*

Only defined in a KOMA-Script class and if `\chapter` is defined. Uses `\addchap` for the heading.

*addchap**

since v3.6

Only defined in a KOMA-Script class and if `\chapter` is defined. Uses `\addchap*` for the heading.

addsec

Only defined in a KOMA-Script class. Uses `\addsec` for the heading.

addsec*

since v3.6

Only defined in a KOMA-Script class. Uses `\addsec*` for the heading.

chapter

Only defined if `\chapter` is defined. Uses `\chapter` for the heading.

chapter*

Uses `\chapter*` for the heading.

none

Displays nothing.

section

Uses `\section` for the heading.

section*

Uses `\section*` for the heading.

25.2. Defining new templates

For the definition of templates these commands are available:

`\NewAcroTemplate`[*type*]{*name*}{*code*}

This defines a template of type *type* with the name *name* which inserts *code* when used. A template of type *type* with name *name* must not exist. The default type is acronym.

`\RenewAcroTemplate`[*type*]{*name*}{*code*}

This re-defines a template of type *type* with the name *name* which inserts *code* when used. A template of type *type* with name *name* must exist. The default type is acronym.

`\SetupAcroTemplate`[*type*]{*name*}{*code*}

since v3.2

Adds *code* to the beginning of the template *name* of type *type*. The default type is acronym.

`\SetupNextAcroTemplate`[*type*]{*name*}{*code*}

since v3.2

Adds *code* to the beginning of *the next use* of the template *name* of type *type*. The default type is acronym.

*`\AcroTemplateType`

Within a template this expands to the *type* of the current template.

*`\AcroTemplateName`

Within a template this expands to the *name* of the current template.

How to use these commands is best explained by examples of how the existing templates have been defined. The following sections will show several examples for their usage.

25.3. Commands to be used in template definitions

ACRO provides and uses a large number of commands that are meant to be used in template definitions and that often are useless or will raise errors if used outside. Depending on their purpose the commands can be used in different types of templates or only in certain types of templates.

In the descriptions below a *** indicates a fully expandable command when used in an `\edef`, `\write` or in `\expanded`.

A *TF* always refers to a `<true>` and `<false>` branch and indicates that *three* commands exist: one exactly as described, one with only the **T** and the `<true>` branch, and one with only the **F** and the `<false>` branch. So `\acroifTF` means there is `\acroifTF`, `\acroifT`, and `\acroifF`, where `\acroifT` and `\acroifF` each have an argument less than `\acroifTF`.

25.3.1. Commands for common uses

*`\acrolistname`

Expands to whatever is currently set with `list/name`.

`\acrowrite{<property>}`

Prints the property `<property>` of the current acronym. Depending on the circumstances this prints the property together with an article or an ending either in uppercase or lowercase form. Default is the lowercase form without ending or article. The actual outcome is determined by switches which are explained in section 30 on page 50.

`\acroformat{<type>}{<text>}`

This formats `<text>` according to `<type>` where `<type>` has either been set as property or as option from the `format` module. Valid values are `short`, `long`, `alt`, `extra`, `foreign`, `list`, and `first-long`.

`\acroshow{<property>}`

For debugging puposes: writes the property `<property>` of the current acronym to the log file.

`\acroifTF{<property>}{<true>}{<false>}`

Checks if the property `<property>` has been set for the current acronym and either leaves `<true>` or `<false>` in the input stream.

`\acroifbooleanTF{<property>}{<true>}{<false>}`

Returns `<true>` if the boolean property `<property>` has been set to `true` and `<false>` otherwise.

`\acroifallTF{<properties>}{<true>}{<false>}`

Checks if all properties in the csv list `<properties>` have been set for the current acronym and either leaves `<true>` or `<false>` in the input stream.

`\acroifanyTF{<properties>}{<true>}{<false>}`

Checks if any of the properties in the csv list `<properties>` has been set for the current acronym and either leaves `<true>` or `<false>` in the input stream.

since v3.1
(2020/05/03)

`\acroiftagTF{<tag>}{<true>}{<false>}`

Checks if the current acronym has been given the tag `<tag>` and either leaves `<true>` or `<false>` in the input stream.

`\acroifstarredTF{<true>}{<false>}`

since v3.5

Checks if the current call of the acronym is a starred command or not and either leaves `<true>` or `<false>` in the input stream.

`\AcroPropertiesMap{<code>}`

Maps over all defined acronym properties. Within `<code>` you can refer to the current property with `#1`.

`\AcroAcronymsMap{<code>}`

since v3.5

Maps over all defined acronyms. Within `<code>` you can refer to the current property with `#1` or with `\AcronymID`.

`\AcroMapBreak`

since v3.5

Stops the map `\AcroAcronymsMap` and is usually used in combination with a boolean check.

`\AcroPropertiesSet{<id>}{<csv list of properties>}`

since v3.5

Allows the setting of properties of acronym `<id>` outside of `\declareAcronym`.

25.3.2. Commands for usage in acronym templates

* `\acroifusedTF{<true>}{<false>}`

Checks if the current acronym has been used before and either leaves `<true>` or `<false>` in the input stream.

`\acroiffirstTF{<true>}{<false>}`

Checks if the current usage of the current acronym is the first time and either leaves `<true>` or `<false>` in the input stream.

`\acroifsingleTF{<true>}{<false>}`

Checks if the current acronym is used a single time and either leaves `<true>` or `<false>` in the input stream.

`\acrogroupcite`

25.3.3. Commands for usage in list templates

* `\acroifchapterTF{<true>}{<false>}`

This just check if `\chapter` is defined. Used in the `toc` template.

* `\acroifpagesTF{<true>}{<false>}`

This is `<true>` if the option `pages/display` is set, *and* the current acronym is not single, *and* has at least one page number. `<false>` otherwise.

`\acropages{⟨first⟩}{⟨range⟩}`

If `\acroifpagesTF` would be `⟨false⟩` this would do nothing. Otherwise, if `pages/display` is first it prints the first page number, preceded by `⟨first⟩` if `pages/name` is true. If `pages/display` is all it prints the page range, preceded by `⟨range⟩` if `pages/name` is true.

`\acronopagerange`

This disables page ranges. Used in the `toc` and `lof` templates.

`\acroneedpages`

This enables the page number displayed. Used in the `toc` and `lof` templates.

since v3.4

`\acropagefill`

If `\acroifpagesTF` would be `⟨false⟩` this would do nothing. Otherwise it prints whatever is set by `pages/fill`.

`\acronymmap{⟨code⟩}`

Maps over the acronyms in order of appearance in the list. Which acronyms these are depends on settings. They might only have certain tags, be ones local to barriers, ...

Within `⟨code⟩` `#1` refers to the current ID of the acronym. Also `\AcronymID` expands to the current ID. The latter is important for all the commands that check or print properties of acronyms.

`\acronymmapTF{⟨code⟩}{⟨true⟩}{⟨false⟩}`

This does the same as `\acronymmap` and also leaves `⟨true⟩` in the input stream if the list is not empty and `⟨false⟩` otherwise. This is useful to trigger a rerun warning.

`\AcronymTable`

This is an empty token list at the beginning of a list template.

`\AcroAddRow{⟨code⟩}`

Adds `⟨code⟩` to the right of `\AcronymTable` and ensures that `\AcronymID` has the correct global definition for this code. With this the code for the `tabular` template and other table templates can be built in a comfortable way.

`\AcroNeedPackage{⟨package⟩}`

Checks if the package `⟨package⟩` is loaded and throws an error otherwise.

`\AcroRerun`

Triggers `ACRO` to throw an “empty list” rerun warning.

25.4. New acronym templates

Some templates are quite short and self-explaining:

```
⋮ \NewAcroTemplate{short}{\acrowrite{short}}
```

Some are a little bit more elaborate:

```

1 \NewAcroTemplate{alt}{%
2   \acroifTF{alt}
3     {\acrowrite{alt}}
4     {\acrowrite{short}}}%
5 }

```

And some templates need to do a lot more:

```

1 \NewAcroTemplate{long-short}{%
2   \acroiffirstTF{%
3     \acrowrite{long}%
4     \acspace{%
5       \acroifT{foreign}{\acrowrite{foreign}, }%
6       \acrowrite{short}%
7       \acroifT{alt}{ \acrotranslate{or} \acrowrite{alt}}}%
8       \acrogroupcite
9     }%
10  }%
11  {\acrowrite{short}}}%
12 }

```

25.5. New list templates

This section shows the definition of three templates: *description*, *tabular*, and *toc*.

First the *description* template:

```

1 \NewAcroTemplate[list]{description}{%
2   \acroheading
3   \acropreamble
4   \begin{description}
5     \acronymsmapF{%
6       \item[\acrowrite{short}\acroifT{alt}{/\acrowrite{alt}}]
7         \acrowrite{list}%
8         \acroifanyT{foreign,extra}{ (%
9           \acroifT{foreign}{\acrowrite{foreign}\acroifT{extra}{, }}%
10          \acroifT{extra}{\acrowrite{extra}}}%
11          \acroifanyT{foreign,extra}{})}%
12          \acropagefill
13          \acropages
14            {\acrotranslate{page}\nobreakspace}
15            {\acrotranslate{pages}\nobreakspace}%
16        }
17        {\item\AcroRerun}
18    \end{description}

```

```
19 }
```

The following shows how to define templates using some kind of table environment. Special care is necessary due to the way \LaTeX tables work: first the table body is built and only then the table itself is printed:

```

1 \NewAcroTemplate[list]{tabular}{%
2   \AcroNeedPackage{array}%
3   \acronymsmapF{%
4     \AcroAddRow{
5       \acrowrite{short}%
6       \acroifT{alt}{/\acrowrite{alt}}
7       &
8       \acrowrite{list}%
9       \acroifanyT{foreign,extra}{ (}%
10      \acroifT{foreign}{\acrowrite{foreign}\acroifT{extra}{, }}%
11      \acroifT{extra}{\acrowrite{extra}}%
12      \acroifanyT{foreign,extra}{)}%
13      \acropagefill
14      \acropages
15        {\acrotranslate{page}\nobreakspace}
16        {\acrotranslate{pages}\nobreakspace}%
17      \tabularnewline
18    }%
19  }
20  {\AcroRerun}%
21  \acroheading
22  \acropreamble
23  \par\noindent
24  \begin{tabular}>{\bfseries}lp{.7\linewidth}}
25    \AcronymTable
26  \end{tabular}
27 }
```

```

1 \NewAcroTemplate[list]{toc}{%
2   \acroheading
3   \acropreamble
4   \acronopagerange
5   \acronymsmapF{%
6     \contentsline{\acroifchapterTF{chapter}{section}}
7     {\acrowrite{short}\acroifT{alt}{/\acrowrite{alt}}}
8     {}{}%
9     \contentsline{\acroifchapterF{sub}section}
10    {
```

```

11     \acrowrite{list}%
12     \acroifT{foreign}{\acrowrite{foreign}\acroifT{extra}{, }}%
13     \acroifT{extra}{\acrowrite{extra}}%
14     \acroifanyT{foreign,extra}{}%
15   }
16   {\acropages{}}{}
17   {}%
18 }
19 {\AcroRerun}
20 }

```

25.6. New heading templates

Let's take a look at the two templates `section` and `section*` which should give you enough information to build your own:

```

1 \NewAcroTemplate[heading]{section} {\section {\acrolistname}}
2 \NewAcroTemplate[heading]{section*}{\section*{\acrolistname}}

```

26. Endings

Referring to section 13.2 on page 23 this section explains how to define and use additional endings.

`\DeclareAcroEnding{<name>}{<short default>}{<long default>}`

This command can be used to define properties and options analogous to the plural endings which have been defined this way:

```

1 \DeclareAcroEnding{plural}{s}{s}

```

In general `\DeclareAcroEnding{<foo>}{<x>}{<y>}` defines these options

`short-<foo>-ending = {<value>}` Initial: $\langle x \rangle$

`long-<foo>-ending = {<value>}` Initial: $\langle y \rangle$

and these properties

`short-<foo> = {<value>}` Initial: $\langle x \rangle$

`short-<foo>-form = {<value>}` (initially empty)

`alt-<foo> = {<value>}` Initial: $\langle x \rangle$

<code>alt-⟨foo⟩-form = {⟨value⟩}</code>	(initially empty)
<code>long-⟨foo⟩ = {⟨value⟩}</code>	Initial: ⟨y⟩
<code>long-⟨foo⟩-form = {⟨value⟩}</code>	(initially empty)
<code>foreign-⟨foo⟩ = {⟨value⟩}</code>	Initial: ⟨y⟩
<code>foreign-⟨foo⟩-form = {⟨value⟩}</code>	(initially empty)
<code>single-⟨foo⟩ = {⟨value⟩}</code>	Initial: ⟨y⟩
<code>single-⟨foo⟩-form = {⟨value⟩}</code>	(initially empty)
<code>extra-⟨foo⟩ = {⟨value⟩}</code>	Initial: ⟨y⟩
<code>extra-⟨foo⟩-form = {⟨value⟩}</code>	(initially empty)

In addition another command is defined which is meant to be used in template definitions.

`\acro⟨foo⟩`

This command tells the template that the ending `⟨foo⟩` should be used.

Section 30 on page 50 has an example of how this can be used to define a possessive ending and commands that make use of them like this:

```
1 \acfg{MP} Member's of Parliament (MP's)
```

27. Articles

Referring to section 14.2 on page 24 this section explains how to define and use additional articles.

`\DeclareAcroArticle{⟨name⟩}{⟨default⟩}`

This command can be used to define properties and options analogous to the indefinite article which have been defined this way:

```
1 \DeclareAcroArticle{indefinite}{a}
```

In general `\DeclareAcroArticle{⟨foo⟩}{⟨x⟩}` defines the option

`⟨foo⟩ = {⟨value⟩}` Initial: ⟨x⟩

and these properties

`short-⟨foo⟩ = {⟨value⟩}` Initial: ⟨x⟩

<code>alt-⟨foo⟩ = {⟨value⟩}</code>	Initial: ⟨x⟩
<code>long-⟨foo⟩ = {⟨value⟩}</code>	Initial: ⟨x⟩
<code>foreign-⟨foo⟩ = {⟨value⟩}</code>	Initial: ⟨x⟩
<code>single-⟨foo⟩ = {⟨value⟩}</code>	Initial: ⟨x⟩
<code>extra-⟨foo⟩ = {⟨value⟩}</code>	Initial: ⟨x⟩

In addition another command is defined which is meant to be used in template definitions.

`\acro⟨foo⟩`

This command tells the template that the article ⟨foo⟩ should be used.

Section 30 on page 50 has examples of how this can be used to define definite articles and commands that make use of them like this:

```
1 \dacs{hadopi} \par
2 \dacl{hadopi}
```

l'HADOPI
la Haute Autorité pour la diffusion des œuvres et la protection des droits sur l'Internet

28. Translations

For adding additional keywords, or for adding translations to existing keywords, or for changing existing translations **ACRO** uses this command:

`\DeclareAcroTranslation{⟨key⟩}{⟨language=translation list⟩}`

With this command new translations keywords can be added and translations for existing keywords can be changed.

`\AddAcroTranslations{⟨key⟩}{⟨language=translation list⟩}`

Basically the same but this time per language rather than per keyword.

As an example this is how **ACRO** declares translations for the pages keyword:

```
1 \DeclareAcroTranslation{pages}{
2   Fallback    = pp\abbrdot ,
3   English     = pp\abbrdot ,
4   French      = pp\abbrdot ,
5   German      = S\abbrdot ,
6   Portuguese  = pp\abbrdot
7 }
```

Translations for a language could be added this way⁹:

⁹ **ACRO** already has the translations for Italian.


```

1 \AddAcroTranslations{Italian}{
2   list-name = Acronimi ,
3   page      = p\abbrdot ,
4   pages     = pp\abbrdot ,
5   sequens   = s\abbrdot ,
6   sequentes = ss\abbrdot ,
7   also      = anche ,
8   and       = e ,
9   or        = o
10 }

```

The existing keywords had been shown in table 1 on page 36.

29. Properties

As you know from section 6 **ACRO** comes with quite a number of predefined properties which control various aspects of acronyms. However, there are cases when additional properties would be nice to have and to use. It can be done with the following command:

`\DeclareAcroProperty*?!|>{<name>}`

This defines the new property `<name>`. The command has five optional arguments most of which you probably never need.

The optional star `*` ensures that each acronym gets a *unique* value for the property.

The optional question mark `?` creates a *boolean* property. That is a property that only can get the values `true` or `false` and when it is used without value (not an empty value!) then `true` is assumed.

The optional exclamation mark `!` creates a *mandatory* property. An error is raised if an acronym does not set it.

The optional pipe `|` creates a *static* property which means its value is written to an auxiliary file and read in again at begin document. Once set the value is the same throughout the document.

since v3.2

The optional greater as symbol `>` creates a *display* property. This additionally defines the two boolean options `<name>/display` and `list/<name>/display`, both initially set to `true`. If these options are set to `false` the acronym commands or the list act as if the property `<name>` has not been set. The `foreign` property is an example.

`\DeclareAcroPropertyAlias*?!|>{<name1>}{<name2>}`

This newly declares property `<name1>` and makes it an alias of property `<name2>`. This means that `<name1>` gets the same value that `<name2>` has unless it is set explicitly. Property `<name2>` must exist.

`\MakeAcroPropertyAlias{<name1>}{<name2>}`

This makes property `<name1>` and makes it an alias of property `<name2>`. Both properties must exist.

Exmaples for defining and using new properties are shown in section A, for example, examples 8 or 9.

30. Own acronym commands

30.1. Background

You can define own acronym commands or redefine the existing ones with commands similar to `\NewDocumentCommand` from the `xparse` package [L3P].

```
\NewAcroCommand{<command>}{<arg. spec.>}{<code>}
```

This creates the new command `<command>` with the argument specification¹⁰ `so<arg. spec.>` and replacement text `<code>`. There are significant differences to `\NewDocumentCommand`: the new command always has two additional arguments: an optional star and an optional argument for options. You can ignore this fact in your definition, though. However, the command *must* at least have one argument *and* the first argument *must* refer to the ID. Everything else is up to you.

The new command has the suiting framework to recognize trailing tokens, count usage, index, and add a citation if necessary.

```
\RenewAcroCommand{<command>}{<arg. spec.>}{<code>}
```

Like `\NewAcroCommand` but redefines an existing command.

```
\UseAcroTemplate[<type>]{<name>}[<argument number>](arguments)
```

The argument `<type>` defaults to `acronym` and `<argument number>` defaults to `1`. The command must be followed by as many mandatory arguments as you specify with `<argument number>`. All predefined acronym templates use the first argument as ID so they must use one argument.

Let's see an example. This is the definition of `\ac`:

```
1 \NewAcroCommand\ac{m}{\UseAcroTemplate{first}{#1}}
```

Equivalent definitions would be:

```
1 \NewAcroCommand\ac{m}{\UseAcroTemplate[acronym]{first}{#1}}
2 \NewAcroCommand\ac{m}{\UseAcroTemplate[acronym]{first}[1]{#1}}
3 \NewAcroCommand\ac{m}{\UseAcroTemplate{first}[1]{#1}}
4 \NewAcroCommand\ac{m}{\UseAcroTemplate{first}[2]{#1}{}}
```

There are a number of switch commands which determine a certain behavior. They tell the following template how to interpret certain conditionals and how to use `\acrowrite`.

10. in the sense of an `xparse` command.

30. Own acronym commands

`\acrocite`

Tells **ACRO** to output the citation.

`\acrodonotuse`

Tells **ACRO** to not count this as usage.

`\acroplural`

Use plural form.

`\acroindefinite`

Use indefinite article

`\acroupper`

Use uppercase form.

`\acrofull`

Use first or full form.

Here is an example that makes use of them:

```
1 \NewAcroCommand\Iacs{m}{%
2   \acroupper\acroindefinite\UseAcroTemplate{short}{#1}%
3 }
```

30.2. Create commands for possessive endings

Let's say you want to add an ending for the genitive case. First you define the appropriate ending:

```
1 \DeclareAcroEnding{possessive}'s}'s}
```

Then you define commands which make use of this ending:

```
1 \NewAcroCommand\acg{m}{\acropossessive\UseAcroTemplate{first}{#1}}
2 \NewAcroCommand\acsg{m}{\acropossessive\UseAcroTemplate{short}{#1}}
3 \NewAcroCommand\aclg{m}{\acropossessive\UseAcroTemplate{long}{#1}}
4 \NewAcroCommand\acfg{m}{%
5   \acrofull
6   \acropossessive
7   \UseAcroTemplate{first}{#1}%
8 }
9 \NewAcroCommand\iacsg{m}{%
10  \acroindefinite
11  \acropossessive
12  \UseAcroTemplate{short}{#1}%
```

```
13 }
```

You may also define acronyms with corresponding properties¹¹:

```
1 \DeclareAcronym{MP}{
2   short = MP ,
3   long  = Member of Parliament ,
4   plural-form = Members of Parliament ,
5   long-possessive-form = Member's of Parliament
6 }
```

Now you can use it like this:

```
1 This is the \acg{MP} first day at work after \dots
```

This is the MP's first day at work after ...

31. Own *ACRO* style files

When you want to use your definitions regarding *ACRO* repeatedly then it makes sense to put them in a file which you put somewhere in your local L^AT_EX tree. There are three options:

1. Put them in a simple .tex file in `\input` it.
2. Put in in a .sty file and include it with `\usepackage after ACRO`.
3. Create a style file following this pattern described below.

`acro.style.<name>.code.tex`

This file should start with

```
1 \AcroStyle{name}
```

and input the file with `\acsetup` using the option

`load-style = {<name>}`

This is more or less the same as if you'd use the package variant but naturally ensures that you load it after *ACRO* and in the future might provide other bells and whistles, too.

The command

¹¹. Bear with me if this is incorrect: English is not my native language.

31. Own *ACRO* style files

`\AcroStyle*{<style>}[<details>]`

has an optional star which switches to expl3 syntax. It also has an optional argument `<details>` with the same purpose and usage as the one from `\ProvidesPackage`. A typical usage would look like

```
1 \AcroStyle{abbrev}[2020/04/21 abbreviations with acro (CN)]
2 \NewDocumentCommand\newabbreviation{mmm}{%
3   \DeclareAcronym{#1}{ short = #2 , #3 , class = abbrev , no-index }%
4 }
5 \NewDocumentCommand\printabbreviations{0{}}{%
6   \printacronyms[#1,include=abbrev]%
7 }
```

Part IV.

Appendix

A. Examples

Example 1: Basic usage

Links: [\[T_EX\]](#) [\[PDF\]](#)

File: `acro.example.basic.tex`

```
7
8 \acsetup{
9   make-links ,
10  pages / display = first ,
11  pages / fill    = {, }
12 }
13
14 \DeclareAcronym{CDMA}{
```

1 Intro

In the early nineties, **GSM** was introduced for the first time into the use of Time Division Multi

Example 2: Re-implement `\acflike`

Links: [\[T_EX\]](#) [\[PDF\]](#)

File: `acro.example.acflike.tex`

```
7 \RenewAcroCommand\acflike{mm}{%
8   \acroformat{long}{#2} (\UseAcroTemplate{short}
9   ){#1})%
10 }
11 \begin{document}
12
13 \ac{cd} \par
14 \acflike{cd}{Rohling}
```

Compact Disc (CD)
Rohling (CD)

A. Examples

Example 3: Invisible command for backref

Links: [\[T_EX\]](#) [\[PDF\]](#) [\[github\]](#)

File: `acro.example.issue-109.tex`

```
7 pages/seq=false
8 }
9
10 \DeclareAcronym{ny}{
11   short = NY ,
12   long = New York ,
13 }
```

nothing

Example 4: Defining a definite article

Links: [\[T_EX\]](#) [\[PDF\]](#) [\[github\]](#)

File: `acro.example.issue-111.tex`

```
7 \NewAcroCommand\dacs{m}{\acrodefinite\
  UseAcroTemplate{short}{#1}}
8 \NewAcroCommand\Dacs{m}{\acroupper\acrodefinite\
  UseAcroTemplate{short}{#1}}
9 \NewAcroCommand\dacl{m}{\acrodefinite\
  UseAcroTemplate{long}{#1}}
10 \NewAcroCommand\Dacl{m}{\acroupper\acrodefinite\
  UseAcroTemplate{long}{#1}}
11
12 \DeclareAcronym{hadopi}{
13   short = HADOPI ,
14   long = Haute Autorit\{'e} pour la diffusion des
  \oe uvres et la protection des
```

l'HADOPI
La Haute Autorité po
sur Internet

Example 5: Write the list of acronyms to an external file

Links: [\[T_EX\]](#) [\[PDF\]](#) [\[github\]](#)

File: `acro.example.issue-119.tex`

```
7 \immediate\openout\acro@list\jobname.ac\relax
8 \immediate\write\acro@list{\string\begin{
description}}
9 \let\item\relax
10 \acronymsmapF{%
11   \immediate\write\acro@list{%
12     \space\space
13     \item[\acrofield{##1}{short}]
14     \acrofield{##1}{list}%
```

A. Examples

Example 6: Insert word between acronym and citation

Links: [\[T_EX\]](#) [\[PDF\]](#) [\[github\]](#)

File: `acro.example.issue-154.tex`

```
7 short = UC ,
8 long = Universal Composability ,
9 cite = xxx
10 }
11
12 \begin{document}
13
14 We use the \ac{uc}[ model] for\dots
```

We use the Universal

Example 7: How to define a possessive ending

Links: [\[T_EX\]](#) [\[PDF\]](#)

File: `acro.example.possessive.tex`

```
7 \NewAcroCommand\acsq{m}{\acropossessive\
  UseAcroTemplate{short}{#1}}
8 \NewAcroCommand\aclg{m}{\acropossessive\
  UseAcroTemplate{long}{#1}}
9 \NewAcroCommand\acfg{m}{%
10 \acrofull
11 \acropossessive
12 \UseAcroTemplate{first}{#1}%
13 }
14 \NewAcroCommand\iacsg{m}{%
```

Member's of Parliame
MP's
Member's of Parliame
Member's of Parliame
a MP's

Example 8: Additional alternative form

Links: [\[T_EX\]](#) [\[PDF\]](#) [\[forum\]](#)

File: `acro.example.texsx-505891.tex`

```
7 \RenewAcroTemplate[list]{description}{%
8 \acroheading
9 \acropreamble
10 \begin{description}
11 \acronymmapF{
12 \item [%
13 \acrowrite{short}%
14 \acroifT{alt}{/}\acrowrite{alt}%
```

Acronyms

four another description

one/two/three commo

A. Examples

Example 9: Foreign short form

Links: [\[T_EX\]](#) [\[PDF\]](#) [\[forum\]](#)

File: `acro.example.texsx-507726.tex`

```
7
8 \RenewAcroTemplate{long-short}{%
9   \acroiffirstTF{%
10    \acrowrite{long}\acspace
11    (%
12     \acrowrite{short}%
13     \acroifT{foreign}{, }%
14     \acrowrite{foreign}%
```

Datenschutz-Grundver-
einer Unternehmungs-
ation“, GDPR)

Abkürzungen

DSGVO Datenschutz-G
einer Unternehmungs-
tion“, GDPR)

Example 10: Species

Links: [\[T_EX\]](#) [\[PDF\]](#) [\[forum\]](#)

File: `acro.example.texsx-513623.tex`

```
7   #1 ,
8   tag = species ,
9   first-style= long ,
10  format = \itshape
11  }%
12 }
13 \newspecies{ecoli}{E.-coli}{Escherichia coli}
```

First use: *Escherichia*
Second use: *E. coli*

Example 11: Capitalization

Links: [\[T_EX\]](#) [\[PDF\]](#) [\[forum\]](#)

File: `acro.example.texsx-515295.tex`

```
7   short = 3-APA ,
8   long = \iupac{3-azido-1-propyl|amine}
9   }
10  \DeclareAcronym{CuAAC}{
11   short = \enquote{click} chemistry ,
12   long = copper(I)-catalyzed azide-alkyne
13   cycloaddition
14 }
```

1: 3-Azido-1-propylan
2: “Click” chemistry
3: Copper(I)-catalyze

Example 12: Articles and possessive forms

Links: [\[T_EX\]](#) [\[PDF\]](#) [\[forum\]](#)

File: `acro.example.tex`

```

7 \NewAcroCommand\Dac{m}{\acroupper\acrodefinite\
  UseAcroTemplate{first}{#1}}
8
9 \NewAcroCommand\Dacg{m}{%
10 \acroupper
11 \acrodefinite
12 \acropossessive
13 \UseAcroTemplate{first}{#1}%
14 }
```

Bob hails from the Ce
 Bob hails from CSS.
 The Centre for Spagh
 CSS's mandate is bro
 The Centre for Spagh
 CSS scientists eat wel

B. Acronyms

Below all abbreviations are listed which have been defined for the manual. The ones without page numbers have been defined but haven't been used.

CD compact disc	5, 14
CTAN Comprehensive T _E X Archive Network	
e.g. for example (<i>Latin: exempli gratia</i>)	26
ECU Steuergerät (<i>Englisch: Electronic Control Unit</i>)	25
etc. <i>et cetera</i>	15, 30
HADOPI Haute Autorité pour la diffusion des œuvres et la protection des droits sur l'Internet 48	
ID identification string	7, 43, 50
JPEG/JPG Joint Photographic Experts Group	13
LA Los Angeles	
LPPL L ^A T _E X Project Public License	3
MP Member of Parliament	23, 47, 52
NATO Organisation des Nordatlantikvertrags (<i>Englisch: North Atlantic Treaty Organization</i>)	
NY New York	27
PDF Portable Document Format	10, 21, 33 f.
PNG Portable Network Graphics	16

C. References

PU Polyurethan	30
SW Sammelwerk	23
T_EX.sx T _E X StackExchange	
UFO unidentified flying object (<i>German</i> : unbekanntes Flugobjekt)	12 f., 23, 26

C. References

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