Documentation of the LaTeX class

`europasscv2025.cls`

https://github.com/Supercaly/europasscv2025

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Abstract

This document describes how to use europasscv2025, an unofficial LaTeX class for typesetting a curriculum vitæfollowing the Europass format as defined by the European Commission. In particular, it implements the *classic* template of the 2025 version of the Europass CV, as available on the official Europass online editor (https://europa.eu/europass) at the time of writing.

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1 Introduction

The Europass CV is the standard model for curriculum vitærecommended by the European Commission, widely used across the European Union and beyond. Since its introduction, the Europass CV has gone through several major revisions, each bringing significant changes to both content and visual layout:

2002 The original *European CV* is launched by the European Commission as a common framework for presenting qualifications and competences.

2004 The format is rebranded as *Europass CV* and becomes part of the broader Europass framework, which also includes the Language Passport, Europass Mobility, and Certificate Supplement.

2013 A major visual redesign introduces a neater, more compact layout with a new color scheme and typographic style. This is the version implemented by the europasscv package (https://ctan.org/pkg/europasscv) and its predecessor europecv (https://ctan.org/pkg/europecv).

2020 The European Commission launches a new online Europass platform with an integrated CV editor. The platform introduces multiple CV templates each with a distinct visual identity significantly different from the 2013 layout.

2025 The current version of the Europass online editor offers a further refined set of templates. The *classic* template, which this class implements, features a full-width colored header with personal information and photo, clean section separators, and a structured layout for entries.

Despite the availability of LaTeX implementations for the 2013 layout, no package existed at the time of writing that targets the current 2025 template as found on the Europass website. europasscv2025 fills this gap by providing a LaTeX implementation of the *classic* template of the 2025 Europass CV editor.

This class is inspired by europasscv by Giacomo Mazzamuto (https://ctan.org/pkg/europasscv), which remains the reference implementation for the 2013 layout. However, europasscv2025 is an entirely independent reimplementation: the API is in no way backwards-compatible or interchangeable with europasscv. Commands, environments, and options are redesigned from scratch to match the new template and to provide a cleaner, more expressive interface.

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2 Requirements and compilation

europasscv2025 requires a reasonably up-to-date LaTeX distribution (TeX Live 2022 or later is recommended). It depends on the following packages: xcolor, graphicx, geometry, fancyhdr, lastpage, tikz, array, tabularx, booktabs, colortbl, longtable, microtype, pgfkeys, ulem, tcolorbox, etoolbox, ragged2e, and hyperref. All of these are included in standard LaTeX distributions.

The class supports pdfLaTeX, XeLaTeX, and LuaLaTeX, and automatically adapts the font setup to the detected engine. XeLaTeX or LuaLaTeX are recommended for best font rendering and full Unicode support; pdfLaTeX is supported but may produce slightly different font rendering.

The recommended way to compile the document is via the provided `Makefile`, which handles all compilation steps automatically, including running biber when bibliography support is used:

```
make          %% compile the CV
make clean    %% remove auxiliary files
make cleanall %% remove auxiliary files and output PDF
```

The `Makefile` uses `latexmk` internally, which automatically detects and reruns the necessary compilation steps (XeLaTeX, biber, etc.) until the document is stable. No manual multi-pass compilation is needed.

3 Tutorial

This section walks through the main features of europasscv2025 with practical examples.

Let's start with a minimal (empty) CV:

```
\documentclass{europasscv2025}
\begin{document}
\end{document}
```

You can start adding content by specifying your personal information and then adding sections and entries as described below. For a complete reference of all available commands and options, see section 4.

3.1 Personal information

Personal information is specified inside the `ecvinfo` environment,which renders the full-width colored header at the top of the CV. Commands inside the environment can be called in any order.

```
\begin{ecvinfo}
    \ecvname{Katie Smith}
    \ecvgender{Female}
    \ecvdateofbirth{1 March 1975}
    \ecvnationality{Irish}
    \ecvaddress[Home]{12 Strawberry Hill, Dublin 8, Ireland}
    \ecvphone{(+353) 555 123 555}
    \ecvphone[Home]{(+353) 127 6689}
    \ecvemail{smith@example.com}
    \ecvwebsite{www.myhomepage.com}
    \ecvsocial{GitHub}{www.github.com/smith}
    \ecvsocial{LinkedIn}{www.linkedin.com/in/smith}
    \ecvim{Whatsapp}{katie.smith}
\end{ecvinfo}
```

Some commands can be called multiple times to build a list of values — for example `\ecvphone`, `\ecvemail`, `\ecvwebsite`, `\ecvsocial`, `\ecvim`, `\ecvnationality`, and `\ecvaddress`.

3.2 Profile picture

An optional profile picture can be shown in the header. Call `\ecvphoto` with the image filename *before* the `ecvinfo` environment:

```
\ecvphoto{photo.jpg}
\begin{ecvinfo}
    \ecvname{Katie Smith}
    ...
\end{ecvinfo}
```

The image is automatically cropped to a circle with a colored border. Any format supported by graphicx is accepted (jpg, png, pdf). To remove the photo, simply omit `\ecvphoto`.

3.3 Sections and entries

Use `\ecvsection` to divide the CV into named sections, and `\ecventry` to add individual items inside each section:

```
\ecvsection{Work experience}
```

```
\ecventry{
    title={Software Engineer},
    organization={Acme Corp},
    location={Rome, Italy},
    date={2020--Present},
    description={Designed and maintained backend services.}
}

\ecvsection{Education and training}

\ecventry*{
    title={Master of Science in Computer Science},
    organization={Sapienza University of Rome},
    location={Rome, Italy},
    date={2018--2020}
}
```

Note the two variants of `\ecventry`:

`\ecventry{...}` Work experience style: date and location are displayed smaller and in body text color.

`\ecventry*{...}` Education style: date and location are displayed at the same size and color as the title.

3.4 Language skills

The language skills table follows the CEFR framework and is rendered inside the `ecvlanguages` environment:

```
\ecvsection{Language skills}
\begin{ecvlanguages}
    \ecvmothertongue{English}
    \ecvlanguage{French}{C1}{C2}{B2}{C1}{C2}
    \ecvlanguage{German}{A2}{A2}{A2}{A2}{A2}
    \ecvcefrlevels
\end{ecvlanguages}
```

`\ecvmothertongue` can be called multiple times for multiple mother tongues. `\ecvcefrlevels` is optional and adds an explanatory note about the CEFR scale at the bottom of the table.

3.5 Personal skills

Skills are grouped in named blocks using the `ecvskills` environment:

```
\ecvsection{Skills}

\begin{ecvskills}[Communication skills]
    \ecvskill{Team work}
    \ecvskill{Mediating skills}
    \ecvskill{Intercultural skills}
\end{ecvskills}

\begin{ecvskills}[Computer skills]
    \ecvskill{Python}
    \ecvskill{LaTeX}
\end{ecvskills}

%% Group without a title
\begin{ecvskills}
    \ecvskill{First aid certificate}
\end{ecvskills}
```

Skills are displayed on a single line separated by `|`. Multiple `ecvskills` environments can follow each other under the same section.

3.6 Driving licences

Driving licence categories are listed inside the `ecvdrivinglicences` environment:

```
\begin{ecvdrivinglicences}
    \ecvdrivinglicence{A}
    \ecvdrivinglicence{B}
\end{ecvdrivinglicences}
```

Standard European categories are A, A1, A2, AM, B, B1, BE, C, C1, CE, D, D1, DE, T.

4 Advanced usage

4.1 Class options reference

Options are passed to the class in the usual LaTeX way:

```
\documentclass[english, color-darkblue, nologo]{europasscv2025}
```

4.1.1 Language options

The language option affects only the labels appearing in the CV (e.g. "Date of birth", "Phone", column headers in the language table). It does not affect hyphenation; use babel or polyglossia for that.

`english` English labels (default).

`italian` Italian labels.

4.1.2 Color scheme options

`color-default` Default gray color scheme (default).

`color-darkblue` Dark blue.

`color-blue` Blue.

`color-darkgreen` Dark green.

`color-green` Green.

`color-darkviolet` Dark violet.

`color-violet` Violet.

4.1.3 Layout options

`nologo` Remove the Europass logo from the footer.

`nototpages` Remove the "Page X/Y" counter from the footer.

`debug` Load showframe and highlight layout boxes for debugging.

4.2 Command reference

4.2.1 Personal information commands

The following commands are available inside the `ecvinfo` environment:

`\ecvname{full name}` Full name, displayed large and bold.

`\ecvdateofbirth{date}` Date of birth.

`\ecvgender{gender}` Gender.

`\ecvnationality{nationality}` Nationality. Repeatable.

\ecvaddress[label]{address} Address. The optional label defaults to the localized word for "Home". Repeatable.

\ecvphone[label]{number} Phone number. The optional label defaults to the localized word for "Mobile". Repeatable.

\ecvemail{address} Email address. Repeatable.

\ecvwebsite{url} Personal website URL. Repeatable.

\ecvsocial{platform}{url} Social media profile. Repeatable.

\ecvim{platform}{username} Instant messaging handle. Repeatable.

4.2.2 Section and entry commands

\ecvsection{title} Renders a section heading with a full-width decorative rule.

\ecventry{key=value, ...} Work experience entry. Date and location are displayed smaller and in body text color.

\ecventry*{key=value, ...} Education entry. Date and location are displayed at the same size and color as the title.

Available keys for `\ecventry` and `\ecventry*`:

title Entry title, bold and highlighted. Required.

organization Organization, company, or institution.

location City and/or country.

date Date or date range (e.g. `2020-2023`).

description Free-form text below the title line. Supports `\newline`, `\textbf`, and other LaTeX commands.

link URL displayed below the description as a clickable underlined link.

4.2.3 Language skill commands

\ecvmothertongue{language} Mother tongue. Repeatable.

\ecvlanguage{name}{list.}{read.}{prod.}{int.}{writ.} Adds a row to the language table. Each skill argument should be a CEFR level (A1–C2) or any string. Repeatable.

\ecvcefrlevels Adds a CEFR explanation note at the bottom of the language table. Optional.

4.2.4 Skill commands

`\ecvskill{skill}` Adds a skill to the current `ecvskills` group.

4.2.5 Driving licence commands

`\ecvdrivinglicence{category}` Adds a driving licence category. Repeatable.

4.3 Color customization

Individual colors can be overridden in the preamble after `\documentclass`, using the following commands. Each command takes a 6-digit HTML hex color code as its argument:

`\ecvaccentcolor{RRGGBB}` Main accent color (header background).

`\ecvtextcolor{RRGGBB}` Body text color.

`\ecvbordercolor{RRGGBB}` Photo border color.

`\ecvtitlecolor{RRGGBB}` Name color in the header.

`\ecvinfocolor{RRGGBB}` Personal info text color in the header.

`\ecvinfolinkcolor{RRGGBB}` Link color inside the header.

`\ecvsectioncolor{RRGGBB}` Section title color.

`\ecvhighlightcolor{RRGGBB}` Entry title and skill highlight color.

`\ecvlinkcolor{RRGGBB}` General hyperlink color.

`\ecvtableitemcolor{RRGGBB}` Text color inside the language table.

`\ecvtablesepcolor{RRGGBB}` Separator color in the language table.

The predefined color schemes are:

Option	Description
`color-default`	Gray (default)
`color-darkblue`	Dark blue
`color-blue`	Blue
`color-darkgreen`	Dark green
`color-green`	Green
`color-darkviolet`	Dark violet
`color-violet`	Violet

4.4 Bibliography and publications

Bibliography support is provided by the optional package europasscv2025-bibliography, which must be loaded separately. This keeps biblatex as an optional dependency for users who do not need a publications section.

4.4.1 Setup

Load the package and specify the `.bib` resource files in the preamble:

```
\documentclass[english]{europasscv2025}
\usepackage{europasscv2025-bibliography}
\addbibresource{publications.bib}
```

Compilation requires biber, which is automatically detected and run by `latexmk`:

```
latexmk -xelatex mycv.tex
```

If you get "undefined citation" errors, delete the auxiliary files (`.bcf`, `.bbl`, `.blg`) and recompile.

4.4.2 Printing publications with `\ecvpublications`

The recommended approach uses `\ecvpublications`, which combines `\ecvsection` and `\printbibliography` in a single command with continuous numbering across all blocks:

```
\ecvpublications[article]{Journal Articles}
\ecvpublications[inproceedings]{Conference Papers}
\ecvpublications[thesis]{Thesis}
\ecvpublications{All Publications}  %% no type filter
```

The optional argument filters by biblatex entry type. Common types: `article`, `inproceedings`, `book`, `thesis`, `misc`.

4.4.3 Raw `refsection` blocks

For full control, use a raw `refsection` block. Each block has its own independent numbering starting from [1]:

```
\begin{refsection}
    \nocite{smith_phd}
    \renewcommand{\section}[2]{\ecvsection{#2}}
    \printbibliography[title=Thesis]
\end{refsection}
```

Numbering is *not* continuous between `refsection` blocks. Use `\ecvpublications` if you want continuous numbering.

4.5 Adding new languages

To add a new language, create `locale/ecv_<lang>.def` and add the corresponding `\DeclareOption` in `europasscv2025.cls`:

```
\DeclareOption{french}{\renewcommand{\ecv@lang}{french}}
```

The `.def` file must define all label commands. Use the existing `locale/ecv_english.def` as a template. Contributions of new language files are welcome.

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