The nacv class *

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Abstract

The *nacv* document class provides four basic features: a column for dates, bulleted items without the environment, some commands for listing publications from a *BibT_EX* file, and some commands for listing contact info using *fontawesome* icons.

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 $^{^*} vo.2.0 \, [2023/07/15], \quad \text{ctan.org/pkg/nacv}, \quad \text{github.com/jessexknight/nacv}$

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1 Usage

\documentclass[<options>]{nacv}

1.1 Options

```
Default options are denoted like (this).

Options from the parent article class are also available.
```

<itemsep=*> (0ex) Vertical space added between most elements using \addvspace.

```
<datesep=*> (--) Symbol between two dates.
```

<datewid=*> (4em) Standard width of a single date.

<dategap=*> (1em) Horizontal space between the date(s) and content.

<margin=*> (35mm) The page margins.

<bibnamebold=*> (true) Whether the CV author's name is be bolded in \publications.

1.2 Commands

Optional and mandatory arguments are denoted like [this] and {this}. Commands from the parent *article* class are also available, including \section, etc.

1.2.1 Dates Column

The dates column is implemented using pairs of top-aligned \parbox, separated horizontally by <dategap>. The width of the *date* box is defined based on the most recent *date command as follows:

```
\twodate Sets date box width to: 2*<datewid>+\widthof{<datesep>} (default)
```

\onedate Sets date box width to: <datewid>

\nodate Sets date box width to: Opt

The width of the *content* box is defined to be the remaining \linewidth. The width definitions are processed in \AtBeginDocument so that any font changes are reflected in \widthof{<datesep>}.

\dated [topsep]{from}{to}{content} The workhorse macro for dated elements: creates the two \parbox. Users can/should create content-specific commands using \dated (e.g., \education, \award, etc.), which nacv avoids doing to allow maximum flexibility.

- [topsep] can be used to override the default space (<itemsep>) between elements.
- If {from} is non-empty, the date box will contain: {from}\hfill<datesep>\hfill{to}.
- If {from} is empty, the date box will contain: \hfill{to} (right justified).
- The *content* box will of course contain {content}.

\bullet [topsep] The workhorse macro for itemized content: skips the date column and adds <bulletsymbol>. Similar to \item, the content is not an argument. Unlike \item, there is no surrounding environment or extra space. The downside is that wrapping content (longer than one line) does not align.

1.2.2 Name & Contact

 $\mbox{\name } \{\mbox{\name of the CV author for $\mathbb CV$ and $\mathbb CV$ and $\mathbb CV$ and $\mathbb CV$ are $\mathbb CV$ as $\mathbb CV$ as $\mathbb CV$ and $\mathbb CV$ are $\mathbb CV$ are $\mathbb CV$ and $\mathbb CV$ are $\mathbb CV$$

\title {title} Stores the title and/or affiliation of the CV author for \maketitle.

\contact [href]{icon} {name} Adds an item of contact info to an internal macro for \maketitle.

TODO: finish after revising definition.

\maketitle Creates the author block, comprising the name and title left left-aligned, and the list of contact info right-aligned. Each side is added in a \parbox that is \textwidth wide, so users should check for overlapping content.

1.2.3 Publications

\publications [bibids]{bibargs} A glorified wrapper for \printbibliography with helpful defaults and two ways to select a subset of references:

- [bibids] can be passed to \nocite to manually select references.
- {bibargs} are passed to \printbibliography to filter references by attributes; e.g., type=article, keyword=oral, etc. Users must add \nocite{*} first with this approach.

1.2.4 Style Hooks

The following style hooks support customization of some elements, with default values denoted like (this).

\datestyle {arg} (#1) Styles dates in \dated.

\namestyle {arg} (\huge#1) Styles the name in \maketitle.

\titlestyle {arg} (#1) Styles title name in \maketitle.

\contactstyle {arg} (#1) Styles contact information in \maketitle.

\bulletsymbol (\textbullet) The symbol used in \bullet.

2 Implementation

```
1% TODO: documentation
2% options
3 \RequirePackage{kvoptions}
4\SetupKeyvalOptions{family=nacv,prefix=nacv@}
5 \DeclareStringOption[0ex]{itemsep}
6 \DeclareStringOption[--]{datesep}
7 \DeclareStringOption[4em]{datewid}
8 \DeclareStringOption[1em]{dategap}
9 \DeclareStringOption[35mm]{margin}
10 \DeclareBoolOption[true]{bibnamebold}
11 \DeclareOption*{\PassOptionsToClass{\CurrentOption}{article}}
12 \ExecuteOptions{}
13 \ProcessKeyvalOptions*
14 \ProcessOptions\relax
15 \LoadClass{article}
16% packages
17 \RequirePackage[nomarginpar,margin=\nacv@margin]{geometry}
18 \RequirePackage{calc}
19 \RequirePackage{fontawesome5}
20% misc lengths
21\setlength\parindent{0pt}
22 \setlength\parskip{0pt}
23 \newlength\nacv@w@itemsep
24\setlength\nacv@w@itemsep{\nacv@itemsep}
25 \newlength\nacv@w@bullet
26% date lengths
27 \newlength\nacv@w@date
28 \newlength\nacv@w@datesep
29 \newlength\nacv@w@dategap
30 \newlength\nacv@w@datex
31 \newlength\nacv@w@afterdatex
32 \newcommand{\nacv@w@update}[1]{%
    \setlength\nacv@w@datex{\dimexpr#1}%
    \setlength\nacv@w@afterdatex{\dimexpr\linewidth-\nacv@w@datex-\nacv@w@dategap}}
35 \newcommand{\nodate}{\nacv@w@update{-\nacv@w@dategap}}
36 \newcommand{\onedate}{\nacv@w@update{\nacv@w@date}}
37 \newcommand{\twodate} {\nacv@w@update{2\nacv@w@date+\nacv@w@datesep}}
38 \AtBeginDocument {%
   \setlength\nacv@w@bullet{\widthof{\bulletsymbol}}%
    \setlength\nacv@w@date{\nacv@datewid}%
   \setlength\nacv@w@datesep{\widthof{\nacv@datesep}}%
   \setlength\nacv@w@dategap{\nacv@dategap}%
    \twodate}
```

```
44% date boxes
45\newcommand{\ifempty}[3]{\if\relax\detokenize{#1}\relax#2\else#3\fi}
46 \newcommand {\nacv@datestr}[2] {\datestyle {\strut%
    \ifempty{#1}{\hfill#2}{#1\hfill\nacv@datesep\hfill#2}}}
48 \newcommand{\nacv@datebox}[3]{%
    \ifdim\nacv@w@datex<0pt\hskip\nacv@w@datex\fi%
    \parbox[t]{\nacv@w@datex}{\nacv@datestr{#1}{#2}}%
    \hskip\nacv@w@dategap%
51
    \parbox[t]{\nacv@w@afterdatex}{\strut#3\strut}\par}
53 \newcommand{\dated}[4][\nacv@w@itemsep]{\par%
    \addvspace{#1}\nacv@datebox{#2}{#3}{#4}\par}
55 \renewcommand {\bullet}[1][\nacv@w@itemsep] {\par%
    \addvspace{#1}\hskip\dimexpr\nacv@w@datex+\nacv@w@dategap%
    {\bulletsymbol}\hskip\labelsep\ignorespaces}
58% name & title
59 \newcommand {\name} [2] {
    \qdef\nacv@name@given{#1}
    \qdef\nacv@name@familv{#2}}
62 \name{(First)}{(Last)}
63 \renewcommand {\title}[1]{
64 \qdef\nacv@title{#1}}
65 \title{(Title)}
66% contact info & icons
67 \newcommand{\nacv@contact@list}{}
68 \newcommand {\nacv@icon}[1]{%
   \parbox{1em}{\centering\small\ifempty{#1}{~}{\faIcon{#1}}}}
70 \newcommand{\nacv@iconlink}[3]{%
  \ifempty{#1}{#3~\nacv@icon{#2}}}\\nef{#1#3}{#3~\nacv@icon{#2}}}}
72 \newcommand{\contact}[3][]{%
    \q@addto@macro\nacv@contact@list{\nacv@iconlink{#1}{#2}{#3}\par}}
74% TODO: \contact*{site}{id} -> \contact[https://site.com]{site}{id}
75% https://tex.stackexchange.com/questions/4386
76% maketitle
77 \renewcommand{\maketitle}{%
    \thispagestyle{empty}%
    \parbox[t]{\textwidth}{%
      {\namestyle{\nacv@name@given~\nacv@name@family}}\par%
80
      \addvspace{1ex}%
81
      {\titlestyle{\nacv@title}}\par}%
82
   \hspace{-\textwidth}%
83
    \parbox[t]{\textwidth}{%
      \raggedleft\contactstyle{\nacv@contact@list}\par}}
86% bib stuff
87 \RequirePackage[
   backend=biber,
```

```
sorting=symd,
     style=numeric,
90
     defernumbers=true,
92]{biblatex}
93 \DeclareSortingTemplate{symd}{
     \sort[direction=descending]{\field{sortyear}\field{year}}
     \sort[direction=descending]{\field{month}}
95
     \sort[direction=descending]{\field{day}}}
97 \newcommand{\nacv@mkbibname}[1]{\ifthenelse{%
     \equal{\nacv@name@given}{\namepartgiven} \AND
     \equal{\nacv@name@family}{\namepartfamily} \AND
99
     \boolean{nacv@bibnamebold}}%
100
     {\mkbibbold{#1}}{#1}}
102 \let\mkbibnamegiven\nacv@mkbibname
103 \let\mkbibnamefamily\nacv@mkbibname
104\setlength{\biblabelsep}{\labelsep}
105 \DeclareFieldFormat{labelnumberwidth}{#1\adddot\hfill}
106 \newcommand{\publications}[2][]{\nocite{#1}\par%
     \addvspace{\nacv@w@itemsep}%
     \printbibliography[resetnumbers=true,heading=none,#2]}
109 % hyperref hack: https://tex.stackexchange.com/questions/484088
\label{limit} \begin{tabular}{l} $$110 \AtEndOfClass{\left\langle ifx\left\langle else\right\rangle else\right\rangle ewcommand{\left\langle href\right\rangle [2]{$\#2$}\fi}$ }
111% hooks
112 \renewcommand{\@seccntformat}[1]{}
113 \newcommand{\datestyle}[1]{#1}
114 \newcommand{\namestyle}[1]{\huge#1}
115 \newcommand{\titlestyle}[1]{#1}
116 \newcommand{\contactstyle}[1]{#1}
117 \newcommand{\bulletsymbol}{\textbullet}
118% end
```