The **UUposter** class[*]

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1 Introduction

Put text here.

2 Usage

Put text here.

\dummyMacro   This macro does nothing. It is merely an example. If this were a real macro, you would put a paragraph here describing what the macro is supposed to do, what its mandatory and optional arguments are, and so forth.

dummyEnv   This environment does nothing. It is merely an example. If this were a real environment, you would put a paragraph here describing what the environment is supposed to do, what its mandatory and optional arguments are, and so forth.

3 Implementation

For simplicity, we'll derive everything from the standard `article` class.

```
 1 \RequirePackage{xkeyval}
 2
 3 \newif\if@uuposter@xetex
 4 \newif\if@uuposter@times
 5 \@uuposter@timestrue
 6 \newif\if@uuposter@helvet
 7 \@uuposter@helvettrue
 8 \newif\if@uuposter@mathtools
 9 \@uuposter@mathtoolstrue
10 \newif\if@uuposter@red
11 \newif\if@uuposter@grey
12 \newif\if@uuposter@top
13 \newif\if@uuposter@landscape
```

---

[*]This document corresponds to **UUposter** v0.4b, dated 2011/09/19.

```latex
14 \newif\if@uuposter@ruled
15 \newif\if@uuposter@sigil@corner
16 \newif\if@uuposter@sigil@margin
17 \newif\if@uuposter@sigil@left
18 \newif\if@uuposter@sigil@right
19 \newif\if@uuposter@sigil@top
20 \newif\if@uuposter@sigil@bottom
21 \newlength\logoboxwidth
22 \newlength\uuposter@TitleHeight
23 \newif\if@uuposter@TitleHeightSet
24 \DeclareOptionX{xetex}{
25 \@uuposter@xetextrue
26 }
27 \DeclareOptionX{notimes}{
28 \@uuposter@timefalse
29 }
30 \DeclareOptionX{nohelvet}{
31 \@uuposter@helvetfalse
32 }
33 \DeclareOptionX{nomathtools}{
34 \@uuposter@mathtoolsfalse
35 }
36 \DeclareOptionX{mathtools}[]{
37 \PassOptionsToPackage{mathtools}{#1}
38 }
39 \DeclareOptionX{red}{
40 \@uuposter@redtrue
41 \@uuposter@greyfalse
42 \ExecuteOptionsX{logo=vit}
43 }
44 \DeclareOptionX{grey}{
45 \@uuposter@redfalse
46 \@uuposter@greytrue
47 \ExecuteOptionsX{logo=4f}
48 }
49 \DeclareOptionX{top}{\@uuposter@toptrue}
50 \DeclareOptionX{landscape}{
51 \ExecuteOptionsX{sidebarwidth=0.1,columns=3}
52 \@uuposter@landscapetrue
53 }
54 \DeclareOptionX{portrait}{
55 \ExecuteOptionsX{sidebarwidth=0.20,columns=2}
56 \@uuposter@landscapefalse
57 }
58 \DeclareOptionX{columns}[2]{\def \uuposter@columns {#1}}
59 \DeclareOptionX{ruled}{\@uuposter@ruledtrue}
60
61 \DeclareOptionX{logo}[4f]{\def\uuposter@LogoInclude{\includegraphics[width=\logoboxwidth]{UU
62
63 \newcommand{\uuposterSigil}{
```

```
 64 }
 65 \define@choicekey+{UUposter.cls}{sigil}[\val\nr]{NW,NE,SW,SE,margin}[SE]{
 66 \ifcase\nr\relax
 67 \renewcommand{\uuposterSigil}{\includegraphics[width=\sigilwidth]{UU_sigill_SO_10Svart}}
 68 \@uuposter@sigil@cornertrue
 69 \@uuposter@sigil@marginfalse
 70 \@uuposter@sigil@toptrue
 71 \@uuposter@sigil@lefttrue
 72 \@uuposter@sigil@bottomfalse
 73 \@uuposter@sigil@rightfalse
 74 \or
 75 \renewcommand{\uuposterSigil}{\includegraphics[width=\sigilwidth]{UU_sigill_SV_10Svart}}
 76 \@uuposter@sigil@cornertrue
 77 \@uuposter@sigil@marginfalse
 78 \@uuposter@sigil@toptrue
 79 \@uuposter@sigil@righttrue
 80 \@uuposter@sigil@bottomfalse
 81 \@uuposter@sigil@leftfalse
 82 \or
 83 \renewcommand{\uuposterSigil}{\includegraphics[width=\sigilwidth]{UU_sigill_NO_10Svart}}
 84 \@uuposter@sigil@cornertrue
 85 \@uuposter@sigil@marginfalse
 86 \@uuposter@sigil@bottomtrue
 87 \@uuposter@sigil@lefttrue
 88 \@uuposter@sigil@topfalse
 89 \@uuposter@sigil@rightfalse
 90 \or
 91 \renewcommand{\uuposterSigil}{\includegraphics[width=\sigilwidth]{UU_sigill_NV_10Svart}}
 92 \@uuposter@sigil@cornertrue
 93 \@uuposter@sigil@marginfalse
 94 \@uuposter@sigil@bottomtrue
 95 \@uuposter@sigil@righttrue
 96 \@uuposter@sigil@topfalse
 97 \@uuposter@sigil@leftfalse
 98 \or
 99 \@uuposter@sigil@margintrue
100 \@uuposter@sigil@cornerfalse
101 \renewcommand{\uuposterSigil}{\includegraphics[width=\sigilwidth]{UU_marginalsigill_5Svart}}
102 \fi
103 }{%
104 \ClassWarning{UUposter}{Ignoring unrecognized value for option 'sigil' (valid options: NW,NE
105 }
106 \DeclareOptionX{sigilwidth}[0.5]{
107 \def\sigilproportion{#1}
108 }
109 \DeclareOptionX{sidebarwidth}[0.2]{
110 \def\sidebarproportion{#1}
111 }
112 \DeclareOptionX{titleheight}[6em]{
113 \@uuposter@TitleHeightSettrue
```

3

```latex
114 \setlength\uuposter@TitleHeight{#1}
115 }
116
117 \DeclareOptionX{math}{\PassOptionsToPackage{\CurrentOption}{UUxetex}}
118 \DeclareOptionX{noxits}{\PassOptionsToPackage{\CurrentOption}{UUxetex}}
119 \DeclareOptionX{serif}{\PassOptionsToPackage{\CurrentOption}{UUxetex}}
120 \DeclareOptionX{sanserif}{\PassOptionsToPackage{\CurrentOption}{UUxetex}}
121
122
123 \DeclareOptionX*{\PassOptionsToClass{\CurrentOption}{a0poster}}
124 \ExecuteOptionsX{grey,sigilwidth,portrait}
125 \ProcessOptionsX\relax
126
127 \if@uuposter@landscape
128 \PassOptionsToClass{landscape}{a0poster}
129 \else
130 \PassOptionsToClass{portrait}{a0poster}
131 \fi
132 \LoadClass{a0poster}
133
134 \if@uuposter@mathtools
135 \RequirePackage{mathtools}
136 \fi
137
138 \if@uuposter@xetex
139 \RequirePackage{UUxetex}
140 \else
141 \if@uuposter@times
142 \RequirePackage{times}
143 \fi
144 \if@uuposter@helvet
145 \RequirePackage{helvet}
146 \fi
147 \fi
148
149 \RequirePackage{xcolor}
150 \definecolor{uuposterred}{RGB}{153,0,0}
151 \definecolor{uuposterlightgrey}{RGB}{230,230,230}
152 \definecolor{uupostermidgrey}{RGB}{190,190,190}
153 \definecolor{uuposterdarkgrey}{RGB}{130,130,130}
154
155 \if@uuposter@red
156 \definecolor{uuposter@bg}{named}{uuposterred}
157 \definecolor{uuposter@fg}{named}{white}
158 \else
159 \if@uuposter@grey
160 \definecolor{uuposter@bg}{named}{uuposterlightgrey}
161 \definecolor{uuposter@fg}{named}{black}
162 \fi
163 \fi
```

The footmisc package is used to fix footnotes in the sidebar minipage:

```
164 \RequirePackage[hang,norule,multiple]{footmisc}
165 \setlength{\footnotemargin}{2em}
166
167 \RequirePackage{graphicx}
```

Using the forloop package just for this seems ridiculous, so I don't:

```
168 \RequirePackage{ifthen}
169 \newcommand{\forloop}[5][1]{%
170 \setcounter{#4}{#2} %
171 \ifthenelse{ \value{#4}<#3 }%
172 {%
173 #5 %
174 \addtocounter{#4}{#1} %
175 \forloop[#1]{\value{#4}}{#3}{#4}{#5} %
176 }{%
177 #5 %
178 }}%
179
```

flowfram is used to control the poster layout:

```
180 \RequirePackage{flowfram}
181 \setlength{\vcolumnsep}{2\baselineskip}
182 \setlength{\columnsep}{2\baselineskip}
183 \newlength\sidebarwidth
184 \newlength\sidebaroffset
185 \setlength{\sidebarwidth}{\sidebarproportion\textwidth}
186 \setlength{\logoboxwidth}{\sidebarwidth}
187 \addtolength{\logoboxwidth}{-\vcolumnsep}
188 \newlength\logoboxoffset
189 \setlength{\logoboxoffset}{\vcolumnsep}
190 \if@uuposter@TitleHeightSet
191 \if@uuposter@top
192 \setlength{\logoboxwidth}{\uuposter@TitleHeight}
193 \addtolength{\logoboxwidth}{-\vcolumnsep}
194 \fi
195 \else
196 \setlength\uuposter@TitleHeight{\logoboxwidth}
197 \addtolength{\uuposter@TitleHeight}{-2\logoboxoffset}
198 \@uuposter@TitleHeightSettrue
199 \fi
200 \if@uuposter@top
201 \setlength{\sidebarwidth}{0pt}
202 \setlength{\sidebaroffset}{0pt}
203 \else
204 \setlength{\sidebaroffset}{\sidebarwidth}
205 \addtolength{\sidebaroffset}{\vcolumnsep}
206 \fi
207
208 \newlength\sigilwidth
```

```
209 \if@uuposter@sigil@margin
210 \if@uuposter@top
211 \setlength{\sigilwidth}{\uuposter@TitleHeight}
212 \else
213 \setlength{\sigilwidth}{\sidebarwidth}
214 \fi
215 \fi
216 \if@uuposter@sigil@corner
217 \setlength{\sigilwidth}{\sigilproportion\textwidth}
218 \newlength\sigiloffsetx
219 \newlength\sigiloffsety
220 \if@uuposter@sigil@right
221 \setlength{\sigiloffsetx}{\textwidth}
222 \addtolength{\sigiloffsetx}{-\sigilwidth}
223 \else \if@uuposter@sigil@left
224 \setlength{\sigiloffsetx}{\sidebarwidth}
225 \fi \fi
226 \if@uuposter@sigil@bottom
227 \setlength{\sigiloffsety}{0pt}
228 \else \if@uuposter@sigil@top
229 \setlength{\sigiloffsety}{\textheight}
230 \addtolength{\sigiloffsety}{-\sigilwidth}
231 \fi \fi
232 \newstaticframe{\sigilwidth}{\sigilwidth}{\sigiloffsetx}{\sigiloffsety}[background]
233 \setstaticframe*{background}{valign=b}
234 \fi
235 \newlength\mainwidth
236 \setlength{\mainwidth}{\textwidth}
237 \addtolength{\mainwidth}{-\sidebaroffset}
238 \Ncolumntopinarea{static}{\uuposter@columns}{\uuposter@TitleHeight}{\mainwidth}{\textheight}
239 \if@uuposter@sigil@corner
240 \setstaticframe{2}{label={title}}
241 \else
242 \setstaticframe{1}{label={title}}
243 \fi
244 \if@uuposter@ruled
245 \newcounter{firstcol}
246 \setcounter{firstcol}{1}
247 \newcounter{secondcol}
248 \forloop{2}{\uuposter@columns}{secondcol}{%
249 \insertvrule{flow}{\thefirstcol}{flow}{\thesecondcol}
250 \addtocounter{firstcol}{1}
251 }
252 \fi
253
254 \newlength\uupostercolwidth
255 \getflowbounds{1}
256 \setlength{\uupostercolwidth}{\ffareawidth}
257
258 \newstaticframe{\sidebarwidth}{\textheight}{0pt}{0pt}[sidebar]
```

```
259 \newlength\authoroffset
260 \if@uuposter@top
261 \setstaticframe*{title}{backcolor=uuposter@bg}
262 \getstaticbounds*{title}
263 \newstaticframe{\logoboxwidth}{\ffareaheight}{0pt}{\ffareay}[logobox]
264 \setlength{\authoroffset}{\textwidth}
265 \addtolength{\authoroffset}{-\logoboxwidth}
266 \newstaticframe{\logoboxwidth}{\ffareaheight}{\authoroffset}{\ffareay}[authorbox]
267 \addtolength{\authoroffset}{-\logoboxwidth}
268 \newstaticframe{\authoroffset}{\ffareaheight}{\logoboxwidth}{\ffareay}[titlebox]
269 \else
270 \setstaticframe*{sidebar}{backcolor=uuposter@bg}
271 \if@uuposter@landscape
272 \setlength{\authoroffset}{3em}
273 \else
274 \setlength{\authoroffset}{6em}
275 \fi
276 \fi
277 \setallstaticframes{valign=t}
```

\uuposterTitleTextColor   Color and style of title text. Default color is UU red unless the top bar is colored,
\uuposterTitleTextStyle   in which case the default foreground color is used instead.

```
278 \newcommand\uuposterTitleTextColor{%
279 \if@uuposter@top
280 \color{uuposter@fg}%
281 \else
282 \color{uuposterred}%
283 \fi%
284 }
285 \newcommand\uuposterTitleTextStyle{%
286 \sffamily\bfseries\veryHuge%
287 }

288 \renewcommand\@maketitle{%
289   \raggedright%
290   \let \footnote \thanks
291     {%
292     \uuposterTitleTextColor%
293 \uuposterTitleTextStyle%
294     \@title \par}%
295   \par
296   }
297 \newcommand\uuposterBeforeTitle{}
298 \newcommand\uuposterTitleContent{\maketitle}
299 \newcommand\uuposterAfterTitle{}
300 \newcommand\uuposterTitle{%
301 \uuposterBeforeTitle%
302 \uuposterTitleContent%
303 \uuposterAfterTitle}
```

\uuposterAuthor   Override this to set the author content in the document:

```
304 \newcommand\uuposterAuthor{}
```

```
305 \newcommand{\uuposterAuthorBlock}{%
306 \uuposterBeforeAuthor%
307 \uuposterAuthorContent%
308 \uuposterAfterAuthor%
309 }
310 \newcommand\uuposterAuthorFootSkip{%
311 \if@uuposter@top
312 \vspace{0.5\baselineskip}
313 \else
314 \vspace{\baselineskip}
315 \fi%
316 }
317 \newlength\uuposterAuthorOffset
318 \if@uuposter@top
319 \setlength{\uuposterAuthorOffset}{0pt}
320 \else
321 \if@uuposter@landscape
322 \setlength{\uuposterAuthorOffset}{3em}
323 \else
324 \setlength{\uuposterAuthorOffset}{6em}
325 \fi
326 \fi
327 \newcommand\uuposterBeforeAuthor{%
328 \if@uuposter@sigil@margin
329 \vfill
330 \else
331 \vskip \uuposterAuthorOffset
332 \fi%
333 }
334 \newcommand\uuposterAuthorTextColor{\color{uuposter@fg}}
335 \newcommand\uuposterAuthorTextStyle{\sffamily\Large}
336 \newcommand\uuposterAuthorContent{%
337 \begin{minipage}{0.9\logoboxwidth}
338 \renewcommand{\thempfootnote}{\textcolor{uuposter@fg}{\Large{{\arabic{mpfootnote}}}}}
339 \uuposterAuthorTextColor\uuposterAuthorTextStyle\uuposterAuthor
340 \uuposterAuthorFootSkip
341 \end{minipage}%
342 }
343 \newcommand\uuposterAfterAuthor{}
344 \newcommand\uuposterInstTextStyle{\large\sffamily}
345 \newcommand\uuposterInstTextColor{\uuposterAuthorTextColor}
346 \newcommand{\uuposterInst}[1]{%
347 \footnote{\uuposterInstTextColor\uuposterInstTextStyle{#1}}%
348 }
349
350 \newcommand\uuposterBeforeLogo{%
351 \vspace{\logoboxoffset}
```

```
352 }
353 \newcommand\uuposterLogoContent{\uuposter@LogoInclude}
354 \newcommand\uuposterAfterLogo{}
355 \newcommand\uuposterLogo{%
356 \uuposterBeforeLogo%
357 \uuposterLogoContent%
358 \uuposterAfterLogo%
359 }
360
361
362 \newcommand\uuposterSectionTextColor{\color{black}}
363 \newcommand\uuposterSectionTextStyle{\sffamily\Huge}
364 \newcommand\uuposterSubSectionTextColor{\uuposterSectionTextColor}
365 \newcommand\uuposterSubSectionTextStyle{\sffamily\huge}
366 \renewcommand\section{%
367 \@startsection{section}{1}{\z@}%
368                 {-3ex \@plus -1ex \@minus -.2ex}%
369                 {2.3ex \@plus.2ex}%
370                 {\uuposterSectionTextColor\uuposterSectionTextStyle}}
371 \renewcommand\subsection{%
372 \@startsection{subsection}{2}{\z@}%
373                 {-2.25ex\@plus -1ex \@minus -.2ex}%
374                 {1ex \@plus .2ex}%
375                 {\uuposterSubSectionTextColor\uuposterSubSectionTextStyle}}
376 \newcommand\uuposterBodyTextStyle{\normalsize}
377 \newcommand\uuposterBodyTextColor{\color{black}}
378 \hyphenpenalty 10000
379 \tolerance 5000
380
381
382
383
384 \AtBeginDocument{%
385 \if@uuposter@sigil@corner
386 \begin{staticcontents*}{background}
387 \raggedleft
388 \uuposterSigil
389 \end{staticcontents*}
390 \fi
391 \if@uuposter@top
392 \begin{staticcontents*}{titlebox}%
393 \uuposterTitle%
394 \end{staticcontents*}
395 \begin{staticcontents*}{logobox}
396 \uuposterLogo
397 \end{staticcontents*}
398 \begin{staticcontents*}{authorbox}
399 \uuposterAuthorBlock
400 \end{staticcontents*}
401 \else
```

```
402 \begin{staticcontents*}{title}%
403 \uuposterTitle%
404 \end{staticcontents*}
405 \begin{staticcontents*}{sidebar}
406 \begin{center}
407 \uuposterLogo
408 \uuposterAuthorBlock
409 \end{center}
410 \if@uuposter@sigil@margin
411 \vfill
412 \uuposterSigil
413 \fi
414 \end{staticcontents*}
415 \fi
416 \uuposterBodyTextColor\uuposterBodyTextStyle%
417 }
418
```

\dummyMacro   This is a dummy macro. If it did anything, we'd describe its implementation here.

```
419 \newcommand{\dummyMacro}{}
```

dummyEnv   This is a dummy environment. If it did anything, we'd describe its implementation here.

```
420 \newenvironment{dummyEnv}{%
421 }{%
```

Don't use % to introduce a code comment within a `macrocode` environment. Instead, you should typeset all of your comments with LaTeX—doing so gives much prettier results. For comments within a macro/environment body, just do an \end{macrocode}, include some commentary, and do another \begin{macrocode}. It's that simple.

```
422 }
```