

The **handout** document class*

Miklós Csűrös
csuros@cs.yale.edu

1997/03/26

Abstract

This is a document class that can be used for handouts with the layout generally used at Yale's Computer Science Department. For each course, a style file should be created containing the course information (instructor, title, etc.) so that the handouts only have to set the handout number (if exists) in the preamble.

*This file has version number v2.0beta, last revised 1997/03/26, documentation dated 1997/03/26.

1 Description

1.1 Mandatory information

For each handout, the following mandatory information should be given:

- School name: `\School{university}`
- Department name: `\Department{department}`
- Course number: `\CourseNumber{course identifier}`
- Course title: `\CourseTitle{course title}`

I recommend putting these into a `.sty` file for the class.

1.2 Optional information

The following are optional information:

- Course Instructor (the default author for the handout): `\CourseInstructor{instructor's name}` [why not put it into a `.sty` file for the class?]
- Handout number: `\HandoutNumber{handout number}`
- Author (substitutes the instructor if both given): `\author{author}`
- Date: `\date{date}` [if not given, then `\today` is used.
- Title: `\title{title}`

1.3 Customization

The following commands can be redefined using `\renewcommand{command}` according to your taste.

- `\schoolfontstyle` used to typeset the school's name. Default: `{\small\sf}`
- `\departmentfontstyle` used to typeset the departments's name. Default: `{\small\sf}`
- `\authorfontstyle` used to typeset the author's/instructor's name. Default: `{\sl}`
- `\datefontstyle` used to typeset the date. Default: `{\sl}`
- `\handoutnumfontstyle` used to typeset the handout number. Default: `{\sl}`.
- `\titlefontstyle` used to typeset the title. Default: `{\LARGE\bf}`
- `\headerfontstyle` used to typeset the header info. Default: `{\sl}`
- `\handoutname` is the name used in the handout numbering. Default: `{Handout}`.

1.4 Options

The option `nopagesetup` makes the handout skip the page size setups of `handout` class (will use those of `article`).

1.5 Generating the class file

Use `latex docstrip`. It asks for the input extension [`.dtx`], the output extension [`.cls`], options [`none`] and the input file name [`handout`].

2 Commented source code

2.1 Identification and options

Identification of the class.

```
1 \NeedsTeXFormat{LaTeX2e}
2 \ProvidesClass{handout}[1997/03/26 v2.0beta handout class]
nopagesetup 3 \newif\if@pagesetup\@pagesetuptrue
4 \DeclareOption{nopagesetup}{\@pagesetupfalse}
5 \DeclareOption{titlepage}{\ClassWarning{handout}{Option titlepage is not used in this class.}}
6 \DeclareOption*{\PassOptionsToClass{\CurrentOption}{article}}
7 \ProcessOptions
8 \LoadClass{article}
```

2.2 Page setup

The sizes for the text are changed to have more space unless option `nopagesetup` is chosen.

```
9 \if@pagesetup
10   \sloppy
11   \setlength{\voffset}{-0.5in}
12   \setlength{\topmargin}{0pt}
13   \setlength{\textheight}{9.0in}
14   \setlength{\textwidth}{6.0in}
15   \setlength{\oddsidemargin}{18pt}
16   \setlength{\evensidemargin}{18pt}
17   \setlength{\itemsep}{1pt minus 0.5pt}
18 \fi
```

2.3 New commands

2.3.1 Customization

```
\titlefontstyle  These macros define the font styles.
\schoolfontstyle 19 \newcommand{\titlefontstyle}{\LARGE\bf}
\departmentfontstyle 20 \newcommand{\schoolfontstyle}{\small\sf}
\authorfontstyle 21 \newcommand{\departmentfontstyle}{\small\sf}
\handoutnumfontstyle 22 \newcommand{\authorfontstyle}{\sl}
\headerfontstyle 23 \newcommand{\datefontstyle}{\sl}
\thehandout
```

```

24 \newcommand{\handoutnumfontstyle}{\sl}
25 \newcommand{\headerfontstyle}{\sl}
26 \newcommand{\handoutname}{Handout}

```

2.3.2 Mandatory information

```

\School Includes \School, \Department, etc.
27 \gdef\@School{\ClassWarningNoLine{handout}{%
28   No school given.\MessageBreak
29   Use \protect\School}some school}
30 \newcommand{\School}[1]{\gdef\@School{#1}}

\Department
31 \gdef\@Department{\ClassWarningNoLine{handout}{%
32   No department given.\MessageBreak
33   Use \protect\Department}some department}
34 \newcommand{\Department}[1]{\gdef\@Department{#1}}

\CourseNumber Since the course number is put in the header on each page, and don't want to issue
a warning message on each page if it is undefined, we use \@ifNoCourseNumber.
35 \newif\ifn@coursenum\n@coursenumtrue\gdef\@CourseNumber{xx999}
36 \newcommand*{\CourseNumber}[1]{\gdef\@CourseNumber{#1}\n@coursenumfalse}

\CourseTitle
37 \gdef\@CourseTitle{\ClassWarningNoLine{handout}{%
38   No course title given.\MessageBreak
39   Use \protect\CourseTitle}some course with no name}
40 \newcommand{\CourseTitle}[1]{\gdef\@CourseTitle{#1}}

```

2.4 Optional information

```

\CourseInstructor
41 \gdef\@author{\ClassWarningNoLine{handout}{%
42   No instructor/author given.\MessageBreak
43   Use \protect\CourseInstructor \space or \protect\author}some instructor}
44 \newcommand*{\CourseInstructor}[1]{\gdef\@author{#1}}

\HandoutNumber
45 \newif\if@numbered\@numberedfalse
46 \newcommand*{\HandoutNumber}[1]{%
47   \gdef\@HandoutNumber{\handoutname \##1}\@numberedtrue}

\title
48 \newif\if@hastitle\@hastitlefalse\gdef\@title{}
49 \renewcommand*{\title}[1]{\gdef\@title{#1}\@hastitletrue}

```

2.5 Title

```

\thanks We do not need it here, it just makes things too complicated.
50 \renewcommand{\thanks}{\ClassWarning{handout}{%
51 Command \protect\thanks\space ignored in this class.}}
52 \gdef\@thanks{}

```

`\maketitle`

```
53 \renewcommand{\maketitle}{\par
54   \begingroup
55     \if@twocolumn
56       \ifnum \col@number=\@ne
57         \@makehandouttitle
58       \else
59         \twocolumn[\@makehandouttitle]%
60       \fi
61     \else
62       \newpage
63       \global\@topnum\z@   % Prevents figures from going at top of page.
64       \@maketitle
65     \fi
66     \thispagestyle{empty}
67   \endgroup
```

So far pretty much the same as in the standard document classes. Here comes the extra stuff. First we deal with checking whether the handout number was set.

```
68   \ifn@coursecnum
69     \ClassWarning{handout}{No course number given.\MessageBreak
70                       Use \protect\CourseNumber}
71   \fi
```

Then we set the header.

```
72   \if@numbered
73     \def\@handoutinfo{\@CourseNumber: \@HandoutNumber{} --- \@date}
74   \else
75     \def\@handoutinfo{\@CourseNumber{} --- \@date}
76   \fi
77   \if@twoside
78     \if@hastitle
79       \markboth{\hspace*{\fill}\headerfontstyle\@title}{
80                 \headerfontstyle\@handoutinfo\hspace*{\fill}}
81     \else
82       \markboth{\hspace*{\fill}\headerfontstyle\@CourseTitle}{
83                 \headerfontstyle\@handoutinfo\hspace*{\fill}}
84     \fi
85   \else
86     \if@hastitle
87       \markright{\headerfontstyle\@handoutinfo
88                  \hspace*{\fill}\@title\hspace*{\fill}}
89     \else
90       \markright{\headerfontstyle\@handoutinfo\hspace*{\fill}}
91     \fi
92   \fi
93   \pagestyle{myheadings}
```

And forget everything we don't need anymore.

```
94   \setcounter{footnote}{0}% and now we kill everything useless
95   \global\let\maketitle\relax
96   \global\let\@maketitle\relax
97   \global\let\@maketitle\relax % we didn't use it anyway ...
98   \global\let\@author\empty
99   \global\let\@School\empty
```

```

100 \global\let\@Department\@empty
101 \global\let\@CourseTitle\@empty
102 \global\let\title\relax
103 \global\let\date\relax
104 \global\let\author\relax
105 \global\let\and\relax
106 \global\let\School\relax
107 \global\let\Department\relax
108 \global\let\CourseNumber\relax
109 \global\let\CourseTitle\relax
110 \global\let\CourseInstructor\relax}

\@maketitle \@maketitle prints out the actual title information.
111 \def\@maketitle{%
112 \newpage
113 \null
114 \vskip 2em%
115 \begin{center}%
116 \vspace*{-0.6in}%
117 {\schoolfontstyle\@School}\
118 {\departmentfontstyle\@Department}\[1.5ex]
119 \begin{tabular*}{\textwidth}{1{\extracolsep{\fill}}cr}
120 \makebox[0in][l]{}
121 & {\@CourseNumber}: {\@CourseTitle}
122 & \if@numbered{\makebox[0in][r]{\handoutnumfontstyle\@HandoutNumber}}\fi\
123 \makebox[0in][l]{\authorfontstyle\@author}
124 && \makebox[0in][r]{\datefontstyle\@date}\
125 \hline
126 \end{tabular*}\par
127 \if@hastitle\vspace*{10ex}\titlefontstyle\@title\fi
128 \end{center}}

```