

A few packages to make your document look better

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March 7, 2020

1 babel

```
1 \usepackage[english]{babel} % change language (dates, captions, ...)
```

2 amsmath, amssymb, esint

These packages add more math symbols.

$$\oint_{\partial V} \mathbf{E}_0 \cdot d\mathbf{S} = \int_V \nabla \cdot \mathbf{E}_0 dV$$

```
1 \oint_{\partial V} \mathbf{E}_0 \cdot d\mathbf{S} = \int_V \nabla \cdot \mathbf{E}_0 dV
```

3 geometry, fancyhdr

You are looking at a document with the following settings:

```
1 \usepackage[%
2   top = 3cm, bottom = 2.5cm, left = 3cm, right = 3cm,
3 ]{geometry} % change margins
```

```
1 \usepackage{fancyhdr} % change headers
2 %% clear header and footers
3 \fancyhf{}
4 \fancyhead[R]{\textsc{Quick reference}}
5 \fancyhead[L]{\textsf{Open\textcolor{cyan!50!blue}{\textbf{\textbackslash{
   HSR}}}}}}
6 \fancyfoot[C]{\thepage}
7 %% make line a bit thicker
8 \renewcommand{\headrulewidth}{0.5pt}
9 %% apply style
10 \pagestyle{fancy}
```

4 xcolor

You can now use **colors**, and **combination of colors**!

```
1 You can now use \textcolor{red}{colors}, and
2 \textcolor{red!40!blue}{combination of colors}!
```

5 float, booktabs, multirow, multicol, array

Table 1: A sane looking table			
Bold	Multiple columns		γ
A	Hello	World	ψ
B	Welcome to	LaTeX	φ

```

1 % float allows for exact placement with `H', works with figures too
2 \begin{table}[H]
3   \centering{
4     \caption{A sane looking table}
5     % array allows to use >{} and <{} to add a command
6     % before and after the start of a cell
7     \begin{tabular}{>{\bfseries}r l l >{\l{}1<{\l}}
8       % beautiful separators with booktabs
9       \toprule
10      % multicolumn (and multirow) allows to do what is says,
11      % `c' stands for "center", can also be `r' or `l'
12      Bold & \multicolumn{2}{c}{Multiple columns} & \gamma\\
13      \midrule
14      A & Hello & World & \psi \\
15      B & Welcome to & LaTeX & \varphi \\
16      \bottomrule
17    \end{tabular}
18 \end{table}

```

6 graphicx

7 tikz, tikz-timing, pgfplots