

Counter formatting

internals/internals-counter-formatting

1 AA

(1)a BB

(1)b CC

(1)c DD

2 EE

(2)a FF

```
\renewcommand\thesubsection  
{(\thesection)\alph{subsection}}  
  
\section{AA}  
\subsection{BB}  
\subsection{CC}  
\subsection{DD}  
\section{EE}  
\subsection{FF}
```

Counter formatting

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1 AA

(1)a BB

(1)b CC

(1)c DD

2 EE

(2)a FF

1 AA

1.1 BB

1.2 CC

1.3 DD

2 EE

2.1 FF

Counter-inspectie

internals/internals-counter-inspection

1 AA

Counters: 1.0, 0,

1.1 BB

Counters: 1.1, 1, i

1.2 CC

Counters: 1.2, 2, ii

```
\section{AA}  
Counters: \thesubsection,  
\arabic{subsection},  
\roman{subsection}  
  
\subsection{BB}  
Counters: \thesubsection,  
\arabic{subsection},  
\roman{subsection}  
  
\subsection{CC}  
Counters: \thesubsection,  
\arabic{subsection},  
\roman{subsection}
```

```
\newcommand\aa{aa: ()}  
\newcommand\bb[1]{bb: (#1)}  
\newcommand\cc[2]{cc: (#1,#2)}  
\newcommand\dd[3]{dd: (#1,#2,#3)}  
\newcommand\ee[3][Z]{ee: (#1,#2,#3)}
```

```
Lorem \aa, \bb{A}, \cc{A}{B}, \dd{A}{B}{C},  
\ee{A}{B}, \ee[A]{B}{C}, \ee ABC. %$ \frac{2}{\sqrt{3}} $
```

Lorem aa: (), bb: (A), cc: (A,B), dd: (A,B,C), ee: (Z,A,B), ee: (A,B,C), ee: (Z,A,B)C.

```
\newcommand\co{CO$_2$}  
\newcommand\term[1]{\textcolor{blue}{\textit{#1}}}
```

```
Lorem ipsum \co{} dolor sit amet \co.  
Duis \term{iaculis} id orci eu mattis.  
\term{Suspendisse facilisis.}
```

Lorem ipsum CO₂ dolor sit amet CO₂. Duis *iaculis* id orci eu mattis. *Suspendisse facilisis*.

```
\newcommand\genummerd[3][.]{\textbf{#2}\leaders  
\hbox{#1}\hfill #3}  
  
\genummerd{AA}{6}\par  
\genummerd{Lorem ipsum}{12}\par  
\genummerd{Amet}{20}\par  
\genummerd[-]{Vivamus}{20}
```

AA	6
Lorem ipsum	12
Amet	20
Vivamus -----	20

```
\genummerd{AA}{6}
\genummerd{Lorem ipsum}{12}
\genummerd{Amet}{20}
\genummerd[-]{Vivamus}{20}
\genummerd[Hoi!]{Vivamus}{20}
```

[illegible]

Adjustbox

internals/internals-newenviron

```
\usepackage{adjustbox,xcolor}
```

```
Lorem ipsum.
```

```
\adjustbox{  
cframe=blue!50!white 1pt 6pt 3pt,  
bgcolor=blue!10!white,  
}{%  
  \parbox  
  {\dimexpr\linewidth - 20pt\relax}  
  {%  
    Quisque porta feugiat tortor  
    tristique porta.  
  }%  
}
```

Lorem ipsum.

Quisque porta feugiat tortor
tristique porta.

Adjustbox

internals/internals-newenviron

```
\usepackage{environ}

\NewEnviron{important}{
  \par
  \adjustbox{
    cframe=blue!50!white 1pt 6pt 3pt,
    bgcolor=blue!10!white,
  }{
    \parbox
    {\dimexpr\linewidth - 20pt\relax}
    {\BODY}%
  }
}
```

```
\begin{important}
  Lorem ipsum ...
\end{important}
```

A lot of packages

internals/internals-packages-ref

Necessary for examples in this presentation.

Improve page margins, mathematics, paragraph indent, language, images and more.

Find a template including the most important packages from Vincent's website, on

vkuhlmann.com/latex/example

Class

internals/internals-providesclass

```
% Bestand: inleveropgave.cls
\NeedsTeXFormat{LaTeX2e}
\ProvidesClass{inleveropgave}
[2021/10/26 inleveropgave v1.0]

\LoadClass[a4paper]{article}
\RequirePackage{amsmath,amssymb,amsthm}
\RequirePackage[margin=2.54cm]{geometry}
...
```

```
% Bestand: document.tex
\documentclass{inleveropgave}
\begin{document}
    Hey!
\end{document}
```

\renewcommand

internals/internals-renewcommand

```
\renewcommand\thesection{007}  
\renewcommand\thesubsection{Yo}  
\section{AA}  
\subsection{BB}  
\subsection{CC}  
\subsubsection{DD}
```

007 AA

Yo BB

Yo CC

Yo.1 DD

Yo.2 EE

`\setcounter`

internals/internals-setcounter

1 AA

5 BB

5.8 CC

6 DD

6.1 EE

```
\section{AA}  
\setcounter{section}{4}  
\section{BB}  
\setcounter{subsection}{7}  
\subsection{CC}  
\section{DD}  
\subsection{EE}
```

Spaties en overzichtelijke code: de verkeerde [internals/internals-spaces-in-code](#)

Nope: `\includegraphics [width=0.9\textwidth]{ afbeelding.jpg }`

Ok

```
\includegraphics [  
    width=    0.9 \textwidth  
]{afbeelding.jpg}
```

Nope

```
\includegraphics [  
    width=    0.9 \textwidth  
  
]{afbeelding.jpg}
```

Spaties en overzichtelijke code: de verkeerslichten [internals/internals-spaces-in-code](#)

Ok

```
\usepackage{  
  parskip,  
  hyperref  
}
```

Ok

```
\begin{center}  
  AA  
\end{center}  
\begin{center}  
BB  
\end{center}  
\begin{center}CC\end{center}
```