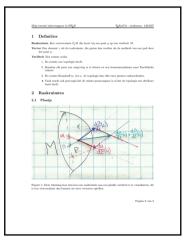
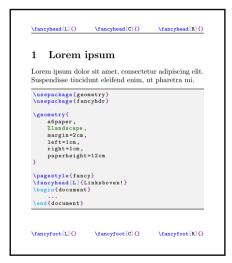
Fancyhdr

document/document-fancyhdr

```
\documentclass[a4paper]{article}
\usepackage[utf8]{inputenc}
\usepackage[margin=2.54cm]{geometry}
\usepackage{fancyhdr}
\pagestyle{fancy}
\title{My document}
\author{Vincent Kuhlmann}
\date{1 May 2021}
\begin{document}
    \maketitle
    \section{Introduction}
   Hello everyone!
end{document}
```

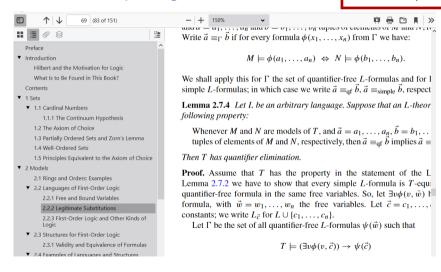


Pagina lay-out en dimensies



document/document-geometry-fancyhdr

```
\usepackage{geometry}
\usepackage{fancyhdr}
\geometry{
    a6paper,
    landscape,
    margin=2cm,
    left=1cm,
    paperheight = 12 cm
\pagestyle{fancy}
\fancyhead[L]{Linksboven!}
```

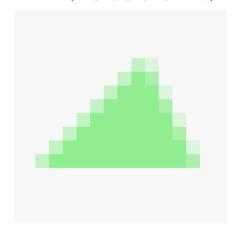


\includegraphics[...]{prachtigeformule.pdf}

$$\sum_{k=0}^{\infty} \frac{x^k}{k!} = e^x$$

Raster vs vector graphics

Raster (.png, .jpg, .jpeg, .bmp)

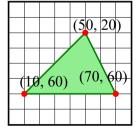


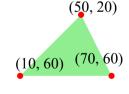
document/document-latex-to-svg

Vector (.pdf, .svg, .dvi, .ps)

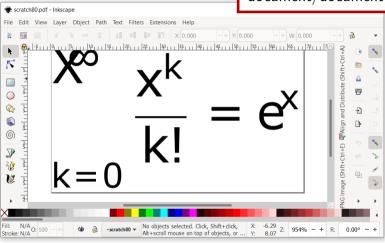


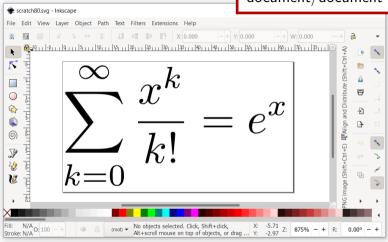
Raster vs vector graphics











```
document/document-latex-to-svg
PS D:\Projects\latexscratch\outdir> pdf2svg scratch8
PS D:\Projects\latexscratch\outdir> wsl pdftocairo -svg_scratch80.pdf scratch80 alt2.svg
PS D:\Projects\latexscratch\outdir>
```

Converteren van pdf naar svg met pdf2svg of met package pdftocairo. Voor laatste is Linux/Mac nodig of Windows Subsystem for Linux.

pdf2svg scratch80.pdf scratch80_alt.svg
wsl pdftocairo -svg scratch80.pdf scratch80_alt2.svg

Converteren van pdf naar svg met pdf2svg of met package pdftocairo. Voor laatste is Linux/Mac nodig of Windows Subsystem for Linux.

4.1.4 1-forms as $C^{\infty}(M)$ -linear functionals eating vector fields

While covectors of a vector space V take vectors to real numbers, 1-forms take vector given ω as above and $X \in \mathfrak{X}(M)$, evaluating ω_p on X_p for each $p \in M$ we obtain a smo

$$\omega(X) \in \mathscr{C}^{\infty}(M);$$

(why smooth?). When we vary X it is clear that the resulting map, still denoted by ω ,

$$\omega:\mathfrak{X}(M)\to\mathscr{C}^\infty(M)$$

is $C^{\infty}(M)$ -linear, i.e. it is linear and

$$\omega(f \cdot X) = f \cdot \omega(X)$$
 for all $f \in \mathscr{C}^{\infty}(M), X \in \mathfrak{X}(M)$.

4.1.4 1-forms as $C^{\infty}(M)$ -linear functionals eating vector peras

While covectors of a vector space V take vectors to real numbers, 1-forms take vector given ω as above and $X \in \mathfrak{X}(M)$, evaluating ω_p on X_p for each $p \in M$ we obtain a smooth

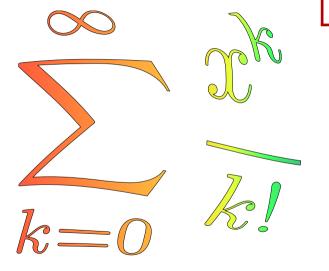
$$\omega(X) \in \mathscr{C}^{\infty}(M);$$

(why smooth?). When we vary X it is clear that the resulting map, still denoted by ω ,

$$\omega:\mathfrak{X}(M) o\mathscr{C}^\infty(M)$$

is $C^{\infty}(M)$ -linear, i.e. it is jinear and

$$= f \cdot \omega(X) \quad \text{for all } f \in \mathscr{C}^{\infty}(M), X \in \mathfrak{X}(M).$$



Page margins

document/document-margins

```
\documentclass{article}
\usepackage[utf8]{inputenc}
\title{My document}
\author{Vincent Kuhlmann}
\date{1 May 2021}
\begin{document}
    \maketitle
    \section{Introduction}
   Hello everyone!
\end{document}
```

```
My document
                 Vincent Kuhlmann
                   1 May 2021
1 Introduction
```

Page margins

document/document-margins

```
\documentclass[a4paper]{article}
\usepackage[utf8]{inputenc}
\usepackage[margin=2.54cm]{geometry}
\title{My document}
\author{Vincent Kuhlmann}
\date{1 May 2021}
\begin { document }
    \maketitle
    \section{Introduction}
   Hello everyone!
\end{document}
```

```
My document
                         1 May 2021
1 Introduction
```

Page margins

document/document-margins

```
\documentclass[a4paper]{article}
\usepackage[utf8]{inputenc}
\usepackage [margin=2.54cm,left=-0.5cm]
{geometry}
\title{My document}
\author{Vincent Kuhlmann}
\date{1 May 2021}
\begin{document}
    \maketitle
    \section{Introduction}
    Hello everyone!
end{document}
```

```
My document
                            1 May 2021
Introduction
```

Simple document

document/document-parts

1 May 2021

```
\documentclass{article}
\usepackage[utf8]{inputenc}
\title{My document}
\author{Vincent Kuhlmann}
\date{1 May 2021}
\begin{document}
\maketitle
\section{Introduction}
Hello everyone!
\end{document}
```

Preamble My document
Vincent Kuhlmann

1 Introduction

Hallo iedereen!

Document

```
\setcounter{secnumdepth}{3}
\section{AA}
Lorem ipsum dolor sit amet,
consectetur adipiscing elit.
\section{BB}
\subsection {CC}
\subsubsection{DD}
\subsection{EE}
Nullam a risus at arcu
lobortis viverra vel
volutpat diam.
\section{FF}
\subsubsection { GG }
```

document/document-secnumdepth

1 AA

Lorem ipsum dolor sit amet, consectetur adipiscing elit.

- 2 BB
- 2.1 CC
- 2.1.1 DD
- 2.2 EE

Nullam a risus at arcu lobortis viverra vel volutpat diam.

- 3 FF
- 3.0.1 GG

```
\setcounter{secnumdepth}{2}
\section{AA}
Lorem ipsum dolor sit amet,
consectetur adipiscing elit.
\section{BB}
\subsection {CC}
\subsubsection{DD}
\subsection{EE}
Nullam a risus at arcu
lobortis viverra vel
volutpat diam.
\section{FF}
\subsubsection { GG }
```

document/document-secnumdepth

1 AA

Lorem ipsum dolor sit amet, consectetur adipiscing elit.

- 2 BB
- 2.1 CC

DD

2.2 EE

Nullam a risus at arcu lobortis viverra vel volut
pat diam.

3 FF

 $\mathbf{G}\mathbf{G}$

```
\setcounter{secnumdepth}{1}
\section{AA}
Lorem ipsum dolor sit amet,
consectetur adipiscing elit.
\section{BB}
\subsection {CC}
\subsubsection{DD}
\subsection{EE}
Nullam a risus at arcu
lobortis viverra vel
volutpat diam.
\section{FF}
\subsubsection { GG }
```

document/document-secnumdepth

1 **AA**

Lorem ipsum dolor sit amet, consectetur adipiscing elit.

2 BB

CC

DD

 $\mathbf{E}\mathbf{E}$

Nullam a risus at arcu lobortis viverra vel volut
pat diam.

$3 ext{ FF}$

GG

```
\setcounter{secnumdepth}{0}
\section{AA}
Lorem ipsum dolor sit amet,
consectetur adipiscing elit.
\section{BB}
\subsection {CC}
\subsubsection{DD}
\subsection{EE}
Nullam a risus at arcu
lobortis viverra vel
volutpat diam.
\section{FF}
\subsubsection { GG }
```

document/document-secnumdepth

$\mathbf{A}\mathbf{A}$

Lorem ipsum dolor sit amet, consectetur adipiscing elit.

BB

 \mathbf{CC}

DD

 ${f EE}$

Nullam a risus at arcu lobortis viverra vel volut
pat diam.

 \mathbf{FF}

GG

Section commands

document/document-sections

```
\section{AA}
Lorem ipsum dolor sit amet,
consectetur adipiscing elit.
\section{BB}
\subsection{CC}
\subsubsection{DD}
\subsection {EE}
Nullam a risus at arcu
lobortis viverra vel
volutpat diam.
\section{FF}
\subsubsection {GG}
```

1 AA

Lorem ipsum dolor sit amet, consectetur adipiscing elit.

- 2 BB
- 2.1 CC
- 2.1.1 DD
- 2.2 EE

Nullam a risus at arcu lobortis viverra vel volut
pat diam.

- 3 FF
- 3.0.1 GG

```
document/document-section-star
```

```
\section{AA}
Lorem ipsum dolor sit amet,
consectetur adipiscing elit.
\section*{BB}
\subsection * {CC}
\subsubsection{DD}
\subsection * {EE}
Nullam a risus at arcu
lobortis viverra vel
volutpat diam.
\section{FF}
\subsubsection {GG}
```

$1 \quad AA$

Lorem ipsum dolor sit amet, consectetur adipiscing elit.

BB

CC

1.0.1 DD

 $\mathbf{E}\mathbf{E}$

Nullam a risus at arcu lobortis viverra vel volutpat diam.

2 FF

2.0.1 GG

```
thesis.tex
section1.tex
section2.tex
...
```

```
% File: section1.tex
% !TEX root=section1.tex
\documentclass
    [thesis.tex]{subfiles}
\begin{document}
    \section{Section 1}
    ...
\end{document}
```

```
% File: thesis.tex
\documentclass
    [a4paper]{article}
\usepackage{subfiles}

\begin{document}
    ...
    \subfile{section1.tex}
    \subfile{section2.tex}
\end{document}
```

Contents

document/document-toc

```
\begin{document}
   \maketitle
   \tableofcontents

   \section{AA}
   ...
\end{document}
```

Contents

1 ΔΔ

-													-
2	$\mathbf{B}\mathbf{B}$												•
	2.1	CC.											:
		2.1.1	DD										4
	2.2	EE .											4
3	\mathbf{FF}												:
		3.0.1	GG										

$1 \quad AA$

Lorem ipsum dolor sit amet, consectetur adipiscing elit.

Contents

document/document-toc

```
\begin{document}
   \maketitle
   \tableofcontents
   \newpage

   \section{AA}
   ...
\end{document}
```

Contents

1	$\mathbf{A}\mathbf{A}$												
2	$\mathbf{B}\mathbf{B}$												
	2.1	${\rm CC}$.											
		2.1.1	DD) .	 								
	2.2	EE .											
3	\mathbf{FF}												
		0.0.1	00	•									

Contents

document/document-toc

```
\usepackage[dutch]{babel}
\begin{document}
    \maketitle
    \tableofcontents
    \newpage
    \section{AA}
    . . .
\end{document}
```

Inhoudsopgave

1 1 1

-	7171												
2	$\mathbf{B}\mathbf{B}$												
	2.1	CC.											
		2.1.1	DD.										
	2.2	EE .											
	FF												
3	rr												
		3.0.1	GG										

Kom bij de T_FXniCie!

3 SETUP AND METHOD

Nunc feugiat purus lorem, in pulvinar leo accumsan quis. Maecenas tristique sollicitudin venenatis. Phasellus imperdiet urna quis augue ornare condimentum. Cras euismod nisi convallis ipsum ultricies aliquet. Suspendisse accumsan vulputate accumsan. Aliquam vehicula sapien quis egestas venenatis. Nam suscipit imperdiet eros eget finibus. Interdum et malesuada fames ac ante ipsum primis in faucibus. Quisque porta ultricies eros nec po-

tas. Cras a convallis mi, a finibus felis. Nunc quis nisi non magna tincidunt tincidunt. Maccenas cursus, velit non dapibus gravida, quam dui condimentum leo, ac egestas tellus sem a est. Pellentesque convallis sollicitudin commodo. Nulla non viverra sapien.

Etiam sit amet neque rutrum, semper ex et, vehicula diam. Aliquam iaculis dignissim accumsan. Integer vel suscipit ligula, at efficitur nulla. Proin iaculis quam at

```
\documentclass[a4paper,twocolumn]{article}
\usepackage[margin=2.54cm]{geometry}
\usepackage{fancyhdr}
\pagestyle{fancy}
```