

# L<sup>A</sup>T<sub>E</sub>X vs Word

## My document

### Lorem ipsum

Lorem ipsum dolor sit amet, consectetur adipiscing elit. Aenean commodo ligula eget dolor. Aenean massa. Cum sociis natoque penatibus et magnis dis parturient montes, nascetur ridiculus mus. Donec quam felis, ultricies nec, pellentesque eu, pretium quis, sem. Nulla consequat massa quis enim.

### Donec pede justo

Fringilla vel, aliquet nec, vulputate eget, arcu. In enim justo, rhoncus ut, imperdiet a, venenatis vitae, justo.

Nullam dictum felis eu pede mollis pretium. Integer tincidunt.

$$f(x) = \frac{1}{\sigma\sqrt{2\pi}} e^{-\frac{1}{2}\left(\frac{x-\mu}{\sigma}\right)^2}$$

Cras dapibus. Vivamus elementum semper nisi. Aenean vulputate eleifend tellus. Aenean leo ligula, porttitor eu, consequat vitae, eleifend ac, enim. Aliquam lorem ante, dapibus in, viverra quis, feugiat a, tellus.



Figure 1: Bengaalse tijger

## My document

Vincent Kuhlmann

3 May 2021

### 1 Lorem ipsum

Lorem ipsum dolor sit amet, consectetur adipiscing elit. Aenean commodo ligula eget dolor. Aenean massa. Cum sociis natoque penatibus et magnis dis parturient montes, nascetur ridiculus mus. Donec quam felis, ultricies nec, pellentesque eu, pretium quis, sem. Nulla consequat massa quis enim.

#### 1.1 Donec pede justo

Fringilla vel, aliquet nec, vulputate eget, arcu. In enim justo, rhoncus ut, imperdiet a, venenatis vitae, justo.

Nullam dictum felis eu pede mollis pretium. Integer tincidunt.

$$f(x) = \frac{1}{\sigma\sqrt{2\pi}} e^{-\frac{1}{2}\left(\frac{x-\mu}{\sigma}\right)^2} \quad (1)$$

Cras dapibus. Vivamus elementum semper nisi. Aenean vulputate eleifend tellus. Aenean leo ligula, porttitor eu, consequat vitae, eleifend ac, enim. Aliquam lorem ante, dapibus in, viverra quis, feugiat a, tellus.



Figur 1: Bengaalse tijger

# L<sup>A</sup>T<sub>E</sub>X vs Word

Inner workings: big difference.

Word: Edit visually,

L<sup>A</sup>T<sub>E</sub>X: Edit code (text)

```
\title{My document}
\author{Vincent Kuhlmann}
\date{3 May 2021}

\begin{document}
\maketitle
\section{Lorem ipsum}
Lorem ipsum dolor sit amet, consectetur

\begin{align}
f(x) = & \frac{1}{\sigma\sqrt{2\pi}}e^{-\frac{1}{2}\left(\frac{x-\mu}{\sigma}\right)^2} \\
& - \frac{1}{2}\left(\frac{x-\mu}{\sigma}\right)^2
\end{align}
```

My document

Vincent Kuhlmann

3 May 2021

## 1 Lorem ipsum

Lorem ipsum dolor sit amet, consectetur adipiscing elit. Aenean commodo ligula eget dolor. Aenean massa. Cum sociis natoque penatibus et magnis dis parturient montes, nascetur ridiculus mus. Donec quam felis, ultricies nec, pellentesque eu, pretium quis, sem. Nulla consequat massa quis enim.

### 1.1 Donec pede justo

Fringilla vel, aliquet nec, vulputate eget, arcu. In enim justo, rhoncus ut, imperdiet a, venenatis vitae, justo.

Nullam dictum felis eu pede mollis pretium. Integer tincidunt.

$$f(x) = \frac{1}{\sigma\sqrt{2\pi}}e^{-\frac{1}{2}\left(\frac{x-\mu}{\sigma}\right)^2} \quad (1)$$

Cras dapibus. Vivamus elementum semper nisi. Aenean vulputate eleifend tellus. Aenean leo ligula, porttitor eu, consequat vitae, eleifend ac, enim. Aliquam lorem ante, dapibus in, viverra quis, feugiat a, tellus.



Figuur 1: Bengaalse tijger

# Code vs Visual

- Websites & Apps  
**Complex**



The screenshot shows a website header with a blue navigation bar. On the left is an orange circle logo. In the center is the text 'Bekijk hele assortiment' with a downward arrow. On the right is a search bar with the placeholder text 'Zoeken naar...'. Below the header, there are two green checkmarks: '✓ Voor 23.59 uur besteld, morgen gratis bezorgd' and '✓ Gratis retourneren'. Below this is a horizontal menu with a home icon and links: 'Extern geheugen', 'WD', 'LaCie', 'Seagate', 'Toshiba', and 'Top'. A breadcrumb trail shows '< Geheugen & opslag'. The main content area is titled 'Externe harde schijven (HDD)' and lists: '1 TB externe harde schijven', '2 TB externe harde schijven', '4TB externe harde schijven', 'Externe HDD bundels', and 'Externe harde schijven voor Windows'. At the bottom of this list is a blue link 'Bekijk meer'. To the right, there is a section titled 'Externe harde schijven' with a description: 'Een externe harde schijf... geheugen voor je compu... maar 1 kabel voor besta... het stopcontact nodig er...'. Below the text is a small image of a black external hard drive.

# Code vs Visueel

```
\begin{lemma}
  Lorem ipsum dolor sit
  ... eget dolor.

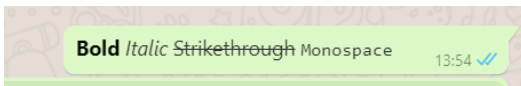
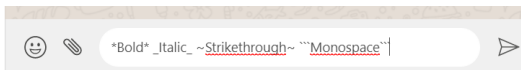
  \begin{proof}
    Aenean massa. Cum
    ... quis enim.
  \end{proof}
\end{lemma}
```

**Lemma 1.9.** *Lorem ipsum dolor sit amet, consectetur adipiscing elit. Aenean commodo ligula eget dolor.*

*Proof.* Aenean massa. Cum sociis natoque penatibus et magnis dis parturient montes, nascetur ridiculus mus. Donec quam felis, ultricies nec, pellentesque eu, pretium quis, sem. Nulla consequat massa quis enim.  $\square$

# Code vs Visual

- Websites & Apps  
**Complex**
- Wikipedia  
**Consistent**
- WhatsApp  
**Expandable**



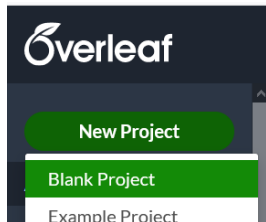
# Overleaf

**LaTeX** is the programming language.

**Overleaf** is a website where you can write and compile LaTeX.

**Visual Studio code** is a desktop app where you can write and compile LaTeX.

**MiKTeX** does compilation for Visual Studio code.



For now: Overleaf.

Want VS Code? Instructions at  
[vkuhlmann.com/latex/installation](https://vkuhlmann.com/latex/installation)

# Simple document

```
\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

Hallo iedereen!