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- 02 Sections

```
commands        section subsection subsubsection
```

Using LaTeX paragraphs and sections

Learn how to structure your document using sections and paragraphs in LaTeX. A brief introduction to headings and the basic file layout.

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1. Sectioning elements (sections, subsections, paragraphs etc.)
2. Example output of sections and subsections
3. Hierarchy of sectioning elements

Sectioning elements (sections, subsections, paragraphs etc.)

We have created a very basic document in the previous lesson, but when writing a paper, it's necessary to structure the content into logic units. To achieve this, LaTeX offers us commands to generate section headings and number them automatically. The commands to create section headings are straightforward:

```
\section{}
\subsection{}
\subsubsection{}

\paragraph{}
\subparagraph{}
```

```
section command

paragraphs
```

Example output of sections and subsections

The *section* commands are numbered and will appear in the table of contents of your document. *Paragraphs* aren't numbered and won't show in the table of contents. Here an example output using sections:

1   Section

Hello World!

1.1   Subsection

Structuring a document is easy!

In order to get this output, we just have to add a few lines to our program from lesson 1:

```
\documentclass{article}

\title{Title of my document}
\date{2013-09-01}
\author{John Doe}

\begin{document}

\maketitle
\pagenumbering{gobble}
\newpage
\pagenumbering{arabic}

\section{Section}

Hello World!

\subsection{Subsection}

Structuring a document is easy!

\end{document}
```

Hierarchy of sectioning elements

The following picture shows the hierarchical structure of all elements:

1 Section

Hello World!

1.1 Subsection

Structuring a document is easy!

1.1.1 Subsubsection

More text.

Paragraph Some more text.

Subparagraph Even more text.

2 Another section

I have used the following code to get this output:

```
\documentclass{article}

\begin{document}

\section{Section}

Hello World!

\subsection{Subsection}

Structuring a document is easy!

\subsubsection{Subsubsection}

More text.

\paragraph{Paragraph}

Some more text.

\subparagraph{Subparagraph}

Even more text.

\section{Another section}

\end{document}
```

It's very easy to structure documents into sections using LaTeX. This feature also exists in Word, but most people don't use it properly. In LaTeX it is very effortless to have consistent formatting throughout your paper. In the next lesson I will give a short introduction to *packages* and show some basic math typesetting. This is where LaTeX really excels.

Summary

- LaTeX uses the commands *\section*, *\subsection* and *\subsubsection* to define sections in your document
- The *sections* will have successive numbers and appear in the table of contents
- *Paragraphs* are not numbered and thus don't appear in the table of contents

Next Lesson: Lesson 3 (/tutorials/packages/)

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