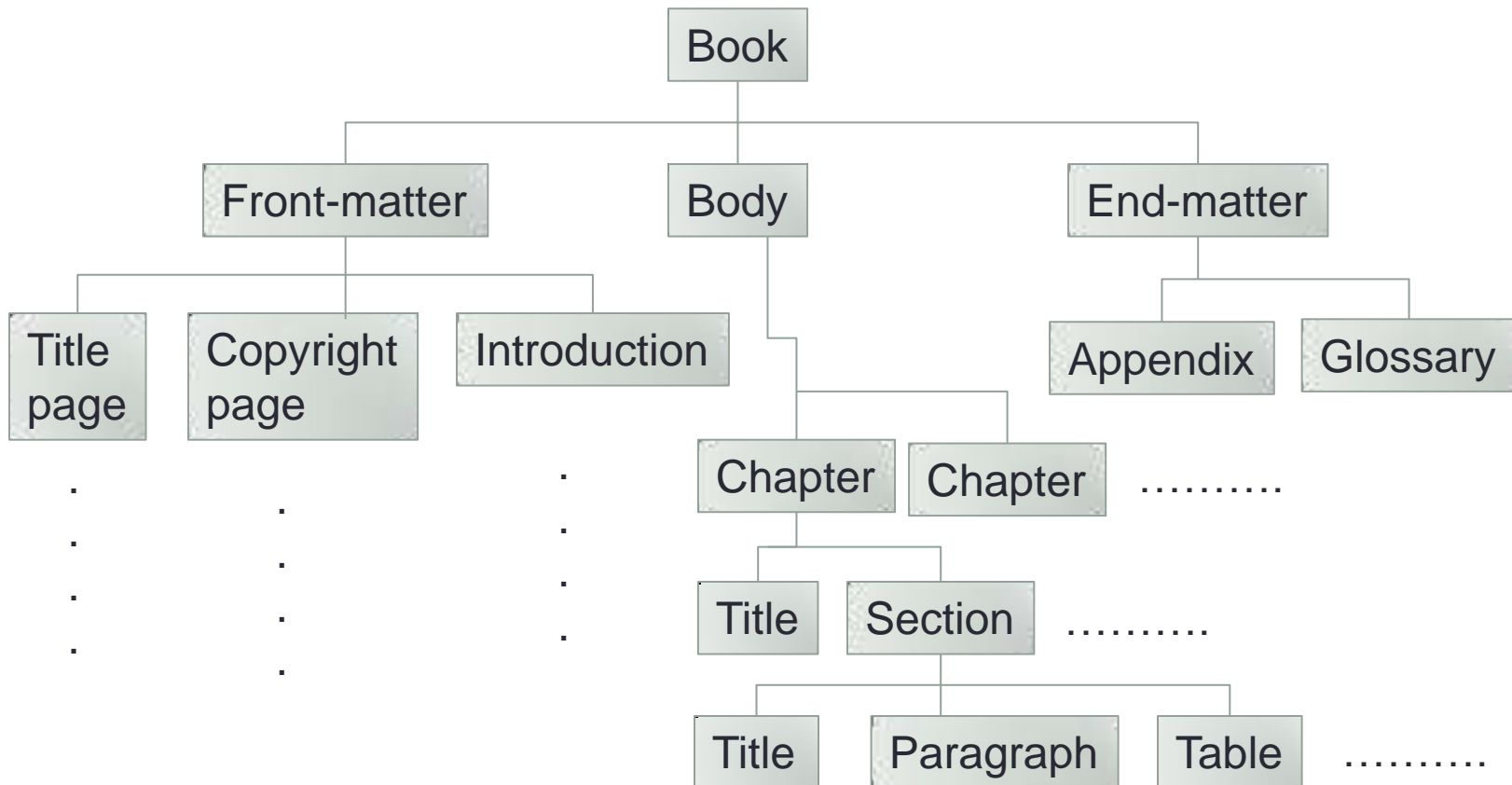


# Typographic markup languages

## Standard Generalized Markup Language



# Typographic markup languages

Standard Generalized Markup Language

```
<chapter>  
<title> Chapter title </title>  
<para> The first paragraph </para>  
<figure artwork = 'fig1'>  
<chapter  
end delimiter missing
```

**DTD - Parsing**

Current Practice

HTML.....XML.....JavaScript

# Typographic markup languages

TEX / LaTeX

Mathematical publishing

Plain text file with a .tex extension

Dedicated LATEX editor

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# LaTeX Examples

- Text styling
- `\textbf{words in bold}` words in bold
- `{\color{colour_name}text}`
- `{\large large words}`
- `{\scriptsize scriptsize words}`
  - `\begin{enumerate}`
  - `\item First thing`
  - `\item Second thing`
  - `\end{enumerate}`

# LaTeX Examples

- Tables
- `\begin{tabular}{|l|l|}`
- `\textbf{Gender & Age}`
- `Woman & 50 \\`
- `Kid & 10 \\`
- `Man & 30 \\`
- `\end{tabular}`

<b>Gender</b>	<b>Age</b>
Woman	50
Kid	10
Man	50

# LaTeX Examples

- `$` is used to enter into the math mode
- `$$4 + 5 = 9$$` - display equation
- `\begin{equation}4 + 5 = 9\end{equation}` – display equation with equation number [for example]
  - $4 + 5 = 9$  (2.6)
- `\begin{eqnarray}.....\end{eqnarray}`
  - $4 + 5 = 9$  (2.6)
  - $M + N = 2MN$  (2.7)
  - $x - y = 7$  (2.8)

# LaTeX References

## BibTeX

```
@ARTICLE{58871,  
author={Hansen, L.K. and Salamon, P.},  
journal={IEEE Transactions on Pattern Analysis and Machine Intelligence},  
title={Neural network ensembles},  
year={1990},  
volume={12},  
number={10},  
pages={993-1001},  
doi={10.1109/34.58871}}
```

## Plain text

L. K. Hansen and P. Salamon, "Neural network ensembles," in *IEEE Transactions on Pattern Analysis and Machine Intelligence*, vol. 12, no. 10, pp. 993-1001, Oct. 1990, doi: 10.1109/34.58871.