

Miscellaneous examples and experiments for Isabelle/Pure

December 17, 2025

Chapter 1

Alternative document headings

```
theory Alternative_Headings
  imports Pure
  keywords
    "chapter*" "section*" "subsection*" "subsubsection*" :: document_heading
begin

ML <
local

fun alternative_heading name body =
  [XML.Elem (Markup.latex_heading (unsuffix "*" name) |> Markup.optional_argument
    "*", body)]];

fun document_heading (name, pos) =
  Outer_Syntax.command (name, pos) (name ^ " heading")
    (Parse.opt_target -- Parse.document_source --| Scan.option (Parse.$$$ ";")
  >>
    Document_Output.document_output
      {markdown = false, markup = alternative_heading name});

val _ =
  List.app document_heading
    [command_keyword <chapter*>,
     command_keyword <section*>,
     command_keyword <subsection*>,
     command_keyword <subsubsection*>];

in end>

end
```

Chapter 2

Some examples of alternative document headings

```
theory Alternative_Headings_Examples  
  imports Alternative_Headings  
begin
```

2.1 Regular section

2.1.1 Regular subsection

Regular subsubsection

Alternative subsubsection

Alternative subsection

Alternative section

```
end
```