

Latex footnotes



```
\begin{itemize}
  \item Claude Sonnet 3.7\footnote{\url{https://www.anthropic.com/news/claude-3-7-sonnet}} (Last
  accessed 13/06/2025)}
  \item Claude Sonnet 3.7 (Thinking)
  \item Claude Sonnet 4\footnote{\url{https://www.anthropic.com/claude/sonnet}} (Last accessed
  13/06/2025)}
  \item GPT 4.1\footnote{\url{https://openai.com/index/gpt-4-1/}} (Last accessed 13/06/2025)}
  \item GPT 4o\footnote{\url{https://openai.com/index/hello-gpt-4o/}} (Last accessed 13/06/2025)}
  \item GPT o3\footnote{\url{https://openai.com/index/introducing-o3-and-o4-mini/}} (Last accessed
  13/06/2025)}
\end{itemize}
```

Consider this list. I need for the second item:

```
\item Claude Sonnet 3.7 (Thinking)
```

To have the same footnote as the first one, without having a new footnote at the bottom. Must reference the same one

To have:

```
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\item Claude Sonnet 3.7 (Thinking)
```

reference the **same footnote** as:

```
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\item Claude Sonnet 3.7\footnote{\url{https://www.anthropic.com/news/claude-3-7-sonnet}} (Last
  accessed 13/06/2025)}
```

without duplicating the footnote, you can define a custom label using `\footnotemark` and `\footnotetext` like this:

```
latex

\begin{itemize}
  \item Claude Sonnet
  3.7\footnote{\label{fn:claude37}\url{https://www.anthropic.com/news/claude-3-7-sonnet}} (Last
  accessed 13/06/2025)}
  \item Claude Sonnet 3.7 (Thinking)\footnotemark[\value{footnote}]
\end{itemize}
```

Alternatively, and more reliably:

If you want absolute reference to the same footnote (in case other footnotes are added and the counter changes), use:

```
latex

\begin{itemize}
  \item Claude Sonnet
  3.7\footnote{\label{fn:claude37}\url{https://www.anthropic.com/news/claude-3-7-sonnet} (Last
  accessed 13/06/2025)}
  \item Claude Sonnet 3.7 (Thinking)\footnotemark[\ref{fn:claude37}]
\end{itemize}
```

Notes:

- `\label{}` and `\ref{}` ensure that both items reference the same exact footnote even if other footnotes are added later.
- `\footnotemark` is used to repeat the mark without adding a new `\footnotetext`.

Let me know if you're compiling this with `hyperref` or need this adapted for a different document class (e.g., `beamer` or `article`).



```
\item Claude Sonnet 3.7 (Thinking)\footnotemark[\value{footnote}]
```

How is this working? The solution is correct, but I am not seeing the unique identifier used in the previous footnote

Great observation — this can seem counterintuitive at first. Here's a breakdown of how this works:

✓ Why `\footnotemark[\value{footnote}]` Works

In this construct:

```
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\item Claude Sonnet 3.7\footnote{\url{...}}
\item Claude Sonnet 3.7 (Thinking)\footnotemark[\value{footnote}]
```

- `\footnote{...}` **automatically increments** the footnote counter.
- Immediately after that `\footnote`, `\value{footnote}` still holds the number of the **last footnote written**.
- So `\footnotemark[\value{footnote}]` reproduces that exact number **without incrementing** the counter again or generating a new footnote at the bottom.

In other words:

`\value{footnote}` grabs the current counter value (say, 5)
`\footnotemark[5]` then inserts a footnote marker with that number, without creating a new footnote.

🔍 Why You Don't See a Label

You're right — there's **no explicit label or identifier** like `\label{fn:...}`. This solution works by **reusing the numeric value** of the last footnote rather than referring to it by name.

It's a kind of **positional reuse**, and it's simple and elegant — but fragile if you later insert a footnote between the two items. In that case, `\value{footnote}` will point to the *newest* footnote, and your reference would be wrong.

✅ Safer Alternative: Label + Ref

To avoid such issues when editing, the more robust and maintainable option is:

```
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```

```
\item Claude Sonnet 3.7\footnote{\label{fn:claudio37}\url{...}}  
\item Claude Sonnet 3.7 (Thinking)\footnotemark[\ref{fn:claudio37}]
```

This approach:

- Assigns a **persistent label** to the first footnote.
- Uses `\ref` to get the correct number **regardless of ordering or new insertions**.

Just make sure `hyperref` is loaded, as `\ref` works better with it.

Let me know if you'd like a comparison of both in code!