

Premises in Beamer

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What We'd Like to Accomplish

An Enumerate Frame with premises

(i) First premise.

(ii) Second premise.

∴ (iii) Conclusion.

This also allows reference to premise (i), (ii), and conclusion (iii).

Doing It

Preamble

Insert the following code into the preamble of your document. (An asterisk * marks a line-break you need to erase before the code becomes functional)

The first command relabels the enumeration environment so that all numbers appear in parentheses.

```
\setbeamertemplate{enumerate item}{(\insertenumlabel)}
```

Pre-amble continued

These commands define the premise and conclusion commands.

```
\newcommand{\premise}[1] [] {  
  \renewcommand{\theenumi}{#1\roman{enumi}}  
}
```

```
\newcommand{\conclusion}*  
  {\setbeamertemplate{enumerate item}*  
  {$\therefore$ (\insertenumlabel)}}}
```

Code in the Document

The Code for the initial slide

```
\begin{enumerate}
  \premise
  \item First premise.\label{item:1}
  \item Second premise.\label{item:2} \conclusion
  \item Conclusion.\label{item:3}
\end{enumerate}
```

This also allows reference to premise (`\ref{item:1}`), (`\ref{item:2}`), and conclusion (`\ref{item:3}`).

Enjoy