

Typing in Special Symbols

- Typing in the special symbols (using the Emacs-package “mule”) can be cumbersome.
 - Mule is activated when following the installation instructions for the emacs mode for Agda.
- A more convenient way is to use the abbreviation mode:
- To activate the abbreviation mode, use under emacs **M-x abbrev-mode**
- Then one can let an arbitrary sequence of characters to be automatically replaced by an abbreviation.

Typing in Special Symbols

- For instance if we want “andd” to expand to \wedge we do the following:
 - We type in “andd”.
 - We use the emacs command **C-x ail**
 - We type in the mini buffer our intended expansion, namely \wedge (typed in as “\wedge”).
 - Now whenever we type in a space-like character (blanks and some punctuations) followed by “andd” followed by a space-like character, then “andd” is replaced by \wedge .
 - You can edit the abbreviations you have defined by using **M-x edit-abbrevs** (when finished use **C-c C-c** in order to activate your definitions).

Abbreviation Mode

- You can prevent the expansion of an abbreviation by using **C-q** before adding any space-like character after “andd”.

Customising Agda with Abbreviation

- In order to load previous abbreviations and save the when exiting Agda you should add the following to your .emacs file:

```
(read-abbrev-file "~/.abbrev_defs" )
```

- However, for this to work you need first to create a file ~/.abbrev_defs
- This is done by following the steps on the next slide

Customising Agda with Abbreviation

- The creation of a file `~/.abbrev_defs` is done as follows (the steps need to be carried out only once):
 - Define at least one abbreviation as above (you can change this abbreviation later by using **M-x edit-abbrevs**).
 - For instance you can just type in `foo`, type in **C-x ail**, and then type in the Mini-buffer `foo`, so that `foo` is expanded to `foo`.
 - Then execute **M-x write-abbrev-file**, and when asked for a file name, enter in the mini-buffer `~/.abbrev_defs`
 - Now execute **M-x read-abbrev-file**, and when asked for a file name, enter in the mini-buffer `~/.abbrev_defs`

Customising Agda with Abbreviation

- If you now create a new abbreviation, and run **C-x s** which is the command for saving all buffers, it will ask as well whether you want to save the abbreviation file.

Customising Agda with Abbreviation

- In order to activate the abbreviation mode, whenever one enters an Agda file, add in your .emacs file after the line

```
(load "~ /emacs/agdainstall")
```

the following

```
(add-hook 'agda2-mode-hook  
          '(lambda nil (abbrev-mode 1)))
```