

# The memory package\*

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## 1 Introduction

The package `memory.sty` provides an easy way to declare object or array containers. If you are considering to use an auxiliary file, you really need this package rather than the heavy I/O manipulation.

## 2 Usage

`\newdata{variable}` These macros declare data variables locally and globally, respectively. The value for star version is also saved globally.  
`\newdata*{variable}`

`\newdata{Person}` % Note: no backslash for the variable declaration  
`\newdata*{Time}`

`\<var>[<p>]=<value>}` Uses = or := to set value. The := version sets the expanded value to variable.

`\<var>[<p>]:=<value>}` – Sets value as a single variable.

`\Person = {Song Zhiwei}` % Note: add backslash for declared variable  
`\Time := \today`

– Sets value as an array.

`\Person[1] = {28.3}`

– Sets value as a multiple dimensional array.

`\Time[2,5,\thesection] = {13 May 2013}`

– Sets value as an object.

`\Person[description] = {A Chinese gentleman.}`  
`\Person[hair] = {black}`

`\<variable>[<p>]` – Gets values.

<code>\Person</code>	Song Zhiwei
<code>\Time</code>	May 13, 2013
<code>\Person[1]</code>	28.3
<code>\Time[2,5,\thesection]</code>	13 May 2013
<code>\Person[description]</code>	A Chinese gentleman.
<code>\Person[hair]</code>	black

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\*This document corresponds to `memory v1.2`, dated 2013/05/13.