

# 1 Using MetaCS

METACS provides commands for running and describing commands.

## 2 Running commands

### 2.1 `\cc` – run a parameterless command (switch)

A switch is a control sequence (command) with no arguments, e.g. `\itshape` which switches the current font to italic shape.

FORMAT: `\cc{⟨command-name⟩}`, where `⟨command-name⟩` is without the backslash.

EXAMPLE:

```
{\cc {itshape} This is italic.} ↦ This is italic.
```

HOW IT WORKS: `\cc` uses `\cs:w #1\cs_end:` to construct the control sequence expandably, add the backslash (`\`) at the front, and then run it.

If the resulting control sequence does not exist, it is no error.

```
\cc {xyz} ↦
```

Items passed in to the construction are expanded.

```
\newcommand \x {o}\newcommand \xxo {abc}\cc {xx\x } ↦ abc
```

REFERENCE:

```
\cs:w #1\cs_end:
```

### 2.2 `\cd` – run a 1-argument command

`\cd` runs commands that take one argument, like `\textbf {Some text}`.

FORMAT: `\cd{⟨command-name⟩}{⟨argument⟩}`, where `⟨command-name⟩` is the control sequence name without the backslash.

EXAMPLE:

```
\cc {textbf}{Some text} ↦ Some text
```

```
\cd {textbf}{Some more text} ↦ Some more text
```

HOW IT WORKS: `\cd` builds on `\cc`'s method of constructing a command name by adding an argument.

It is no compilation error if the constructed command is not defined.

```
\cc {textbff}{Some text} ↦ Some text
```

REFERENCE:

```
\tl_set:Nn \l_my_tl { #2 }  
\cs:w #1\cs_end: { \tl_use:N \l_my_tl }
```

## 2.3 `\cdr` – print and run code

`\cdr` prints and runs whatever code is passed to it.

FORMAT: `\cdr{⟨code⟩}`

EXAMPLE:

```
\cdr {\sffamily \large \textsc {Some text}} ↦ \sffamily
\large \textsc {Some text} ↦ SOME TEXT
```

HOW IT WORKS: `\cdr` uses `\detokenize` to print its argument #1, then leaves argument #1 in the input stream.

REFERENCE: In effect

```
\detokenize{#1}
$\mapsto$
#1
```

## 2.4 `\cdrq` – print and run code in quotation environment

`\cdrq` does a `\cdr` inside a `\begin{quotation} ... \end{quotation}` environment.

FORMAT: `\cdrq{⟨code⟩}`

EXAMPLE:

```
\cdrq {\ttfamily \tiny \color {red} Example} ↦
\ttfamily \tiny \color {red} Example ↦ Example
```