

1 Introduction

(1) The original technique to execute an arbitrary command:

```
\immediate\write18{node
  "\coffeexelatexroute"
  "\currfilepath"
  "helo"
  "readers (one)"
  > /tmp/temp.dat}\input{/tmp/temp.dat}
```

(2) With ugly details largely hidden, the `\exec{}` command is still fully general:

```
\exec{node
  "\coffeexelatexroute"
  "\currfilepath"
  "helo"
  "readers (two)"}
```

(3) `\noderunscript{}` will execute NodeJS code that adheres to the call convention established by *CoffeeX_qL^AT_EX*:

```
\noderunscript
  {\coffeexelatexroute}
  {\currfilepath}
  {helo}
  {readers (three)}
```

(4) Like the previous example, but with standard values assumed as shown above. This is the form that you will want to use most of the time:

```
\noderun{helo}{readers (four)}
```

Outputs:

```
Hello, readers (one)!
Hello, readers (two)!
Hello, readers (three)!
Hello, readers (four)!
```

2 Geometry

Use geometry data from aux file to render a table of layout dimensions into the document; note the we could have used the `\auxgeo` command anywhere in the document and that this currently only works for documents with a single, constant layout.

Also note we're using a dash instead of an underscore here—in \TeX , underscores are special, so we conveniently allow dashes to make things easier. The *CoffeeX₃* \LaTeX command `show-geometry` does not take arguments, which is why the second pair of braces has been left empty:

Command:

```
\noderun{show-geometry}{}{}
```

Output:

Geometry:

firstlinev: 10.03mm

footskip: 10.58mm

headheight: 4.23mm

headsep: 8.82mm

marginparsep: 3.88mm

marginparwidth: 1.06mm

paperheight: 210.71mm

paperwidth: 148.50mm

textheight: 175.39mm

textwidth: 103.95mm

topmargin: -28.50mm

voffset: 25.49mm

3 Character Escaping

The *CoffeeX₃*LaTeX command `show-special-chrs` demonstrates that it is easy to include TeX special characters in the return value. The simple rule is that whenever the output of a command is meant to be understood literally, it should be `@escaped`:

Command:

```
\noderun{show-special-chrs}{}
```

Output:

Special characters:

opening brace: {

closing brace: }

Dollar sign: \$

ampersand: &

hash: #

caret: ^

underscore: _

wave: ~

percent sign: %