

# Working with Code environments in texor

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**Abstract** This is a small sample article to demonstrate usage of texor to convert code environments.

## 1 Introduction

Pandoc naturally converts verbatim environment easily, however the redefinition of other commands such as `example`, `example*`, `Sinput` etc to verbatim does not work well in pandoc.

Hence Texor package uses the stream editor to search find and replace matching code environments to verbatim before pandoc touches it.

This way the the code is not lost in conversion, also a pandoc extension is used to add attributes to the markdown code using 'fenced\_code\_attributes'

It is well summarized in the table 1

Code Environment Type					
Example	<code>example</code>	<code>example*</code>	<code>smallexample</code>		
S.series	<code>Sin</code>	<code>Sout</code>	<code>Sinput</code>	<code>Soutput</code>	<code>Scode</code>
Special Verbatim	<code>smallverbatim</code>	<code>boxedverbatim</code>			

**Table 1:** Code Environment support in texor

## 2 Environments

### Verbatim Series

While verbatim is naturally supported in pandoc, other extensions of verbatim environment like `boxedverbatim` from `moreverb` package (Fairbairns, Duggan, Schöpf, Eijkhout, 2011)

1. verbatim :

```
print("Hello world")
```

2. `smallverbatim` :

```
print("Hello world")
```

3. `boxedverbatim` :

```
print("Hello world")
```

### S series

S series code environment is defined in `Rjournal.sty` file.

1. `Sinput` :

```
print("Hello world")
```

2. `Soutput` :

```
[1] "hello world"
```

3. `Sin` :

```
print("Hello world")
```

4. `Sout` :

```
[1] "hello world"
```

### Example series

Example series of code environment is defined in Rjournal.sty file.

1. example :

```
print("Hello world")
```

2. example\* :

```
print("Hello world")
```

3. smallexample :

```
print("Hello world")
```

## 3 Code in Figure Environments

A small example of this is visible in 1

```
code_in_figure <- function() {  
  if (pandoc_version >= 3) {  
    print("Code in Figure Supported")  
  }  
  else {  
    print("code in Figure not supported")  
  }  
}
```

**Figure 1:** Example Code inside Figure environment

Pandoc v3 or greater ([Krewinkel, Lucero, 2023](#)) has a Figure object which allows non-image figures to be treated like one.

## 4 Code in Table Environments

## 5 Inline Code usage

## 6 Code chunks using Schunk

Input :

```
print("Hello world")
```

Output :

```
[1] "hello world"
```

## 7 Summary

In summary the [texor](#) package supports:

- Almost all code environments in RJournal.
- Code Highlight for R language.
- Code blocks inside Figure environment with captions.
- Inline Code.

## Bibliography

- A. Krewinkel and A. Lucero pandoc 3.0 Release notes *pandoc* 2023 URL <https://pandoc.org/releases.html#pandoc-3.0-2023-01-18> [p2]
- R. Fairbairns, A. Duggan, R. Schöpf and V. Eijkhout The moreverb package documentation CTAN 2011 URL <https://mirror.niser.ac.in/ctan/macros/latex/contrib/moreverb/moreverb.pdf> [p1]

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