

# Unilur Example

## Usage once extension is installed

- **Activate** the extension by adding the following lines to your YAML header:

```
format:  
  unilur-html: default  
  unilur-html+solution:  
    # You have to specify a different output file otherwise they will  
    # overwrite themselves  
    output-file: example-solution.html
```

When you call `quarto render`, two HTML files will be produced. The one named `example-solution.html` will have the solution blocks included.

- **Solution** code blocks are **highlighted** or ~~discarded~~ according to the chunk option `unilur-solution` Boolean and the global option `show-solution` in the YAML header.

Of note, if `show-solution` is absent, it is considered `false`.

## Example with `unilur-solution: true`

- Code chunk with `echo: fenced`

Solution

```
```{r}  
#| unilur-solution: true  
  
1 + 1  
```
```

[1] 2

- Code block *without* solution, so stays in whatever happens

```
```{r}
1 + 1
```
```

[1] 2

- Solution with `unilur-collapse: false`

Solution

```
1 + 2
```

[1] 3

Any machinery supported by Quarto can be used:

- Python Code chunk with `unilur-solution: true`

```
#! unilur-solution: true
for i in [3, 5, 6]:
    print(i)
```

Caution callouts are classic:

 Danger

Red expected

But tip ones are using a yellow color to better discriminate with the new solution blocks:

 Tip

Are yellow instead of green-ish (in HTML)

- Solution with markdown text (`{block}`):

Solution

For text with **bold** or warning people about CO<sub>2</sub> atmospheric concentration  
R code can be displayed but not executed.

```
```{r}

1 + 1
```
```

You can also include `div` labels with `unilur-solution`. Note the solution will only show up in the solution file (collapsed box).

#### Solution

Here is a solution that is inside a `div`. The contents of this will only be shown in the solution document. Source code highlighting is preserved inside the `div` and executable.

```
sample(CO2, size = 5) |>
  head(5)
```

|   | Type   | conc | uptake | Treatment  | Plant |
|---|--------|------|--------|------------|-------|
| 1 | Quebec | 95   | 16.0   | nonchilled | Qn1   |
| 2 | Quebec | 175  | 30.4   | nonchilled | Qn1   |
| 3 | Quebec | 250  | 34.8   | nonchilled | Qn1   |
| 4 | Quebec | 350  | 37.2   | nonchilled | Qn1   |
| 5 | Quebec | 500  | 35.3   | nonchilled | Qn1   |

The advantage of working inside the `div` labels is that standard code formatting and highlighting will apply, and code can be executed alongside standard text.