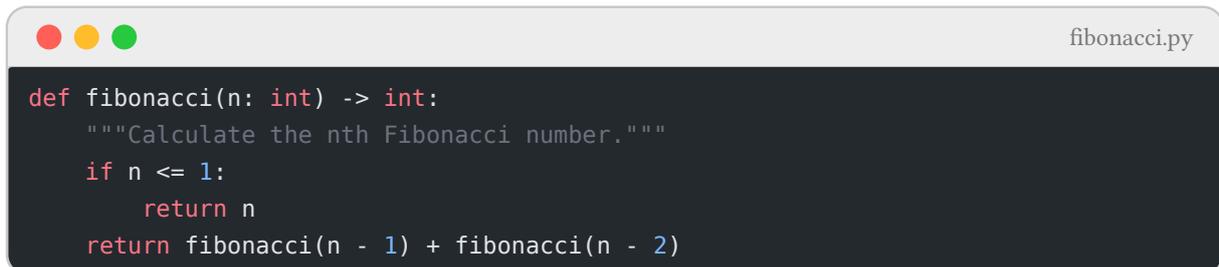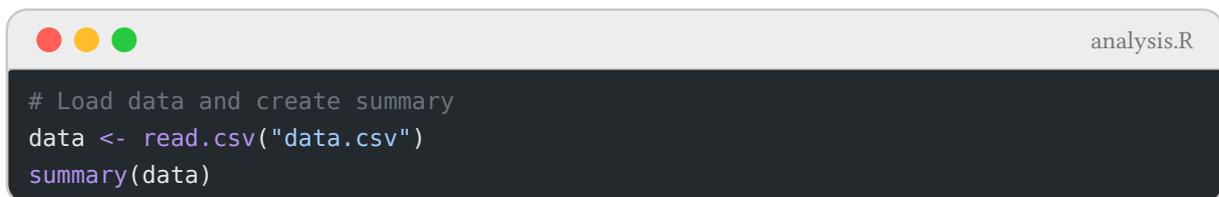# Code Window

Quarto Extension

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Explicit Filename

Code blocks with a `filename` attribute display a window header with the filename. The decoration style depends on the `style` option (default: `"macos"`).
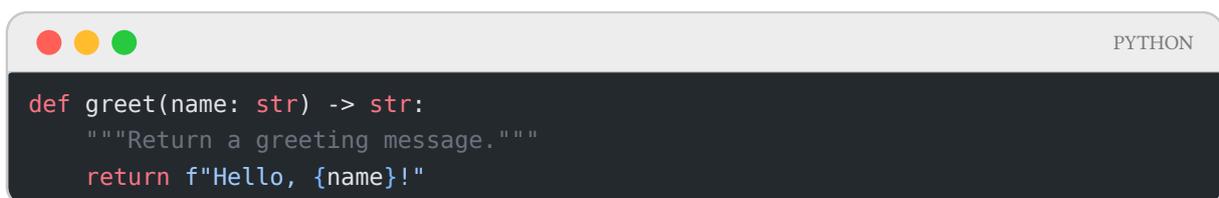
```python
def fibonacci(n: int) -> int:
    """Calculate the nth Fibonacci number."""
    if n <= 1:
        return n
    return fibonacci(n - 1) + fibonacci(n - 2)
```
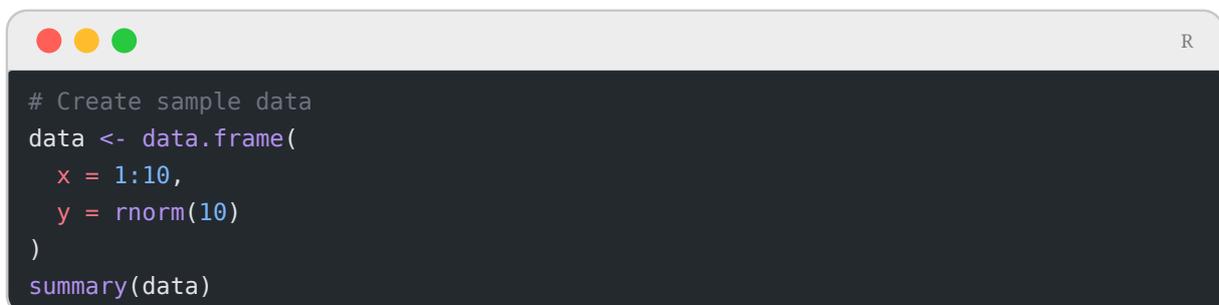fibonacci.py

```r
# Load data and create summary
data <- read.csv("data.csv")
summary(data)
```
analysis.R

Auto-Generated Filename

With `auto-filename: true` (the default), code blocks without explicit filenames automatically show the language name in small-caps styling.

```python
def greet(name: str) -> str:
    """Return a greeting message."""
    return f"Hello, {name}!"
```
PYTHON

```r
# Create sample data
data <- data.frame(
  x = 1:10,
  y = rnorm(10)
)
summary(data)
```
R

```bash
 ● ● ●                                                                    BASH
#!/bin/bash
echo "Hello, World!"
```

Plain Code Block

Code blocks without a language are not affected by the extension.

```
This is a plain code block without any language specified.
No window decoration is applied here.
```

Disabled Auto-Filename

To disable auto-generated filenames, set `auto-filename: false` in the extension configuration. Only code blocks with an explicit `filename` attribute will display window decorations.

Window Styles

Three decoration styles are available via the `style` option. The global style can be set in the document configuration. Individual blocks can override the style with the `code-window-style` attribute.

macOS Style (default)

Traffic light buttons on the left, filename on the right.

```
 ● ● ●                                                             macos-example.py
print("macOS style window")
```

Windows Style

Minimise, maximise, and close buttons on the right, filename on the left.

```
 windows-example.py                                                    ─ □ ✕
print("Windows style window")
```

Default Style

Plain filename on the left, no window decorations.

```
 default-example.py
print("Default style window")
```

Configuration

Set the global style in the document front matter:

```yaml
 ● ● ●                                                                    YAML
extensions:
  code-window:
    style: "macos"
```

Override per block with the `code-window-style` attribute:

```{.python filename="example.py" code-window-style="windows"}
print("Windows style for this block only")
```