

# Demonstration Beamer/Reveal

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## Section 1

### Part 4: Code

# Code Embedding

Traditional code embedding can be done as in markdown or beamer listings. An interesting aspect is to have the code *actually executed*, and its output appended here.

One example of code in Python (not executed):

```
print("Hello World")
```

This is how it's done:

```
\```.python}  
print("Hello World")  
\````
```

# Active Code

To have code executed, you will need the plugin `pandoc-source-exec` from `panflute` pack (install as easy as `python3 -m pip install pandoc-source-exec`). On Pandoc, we can use `.exec` property (also `hide=true` and `hide_code=true`). A specific command can be given, such as: `cmd='codes/run_python2.sh'`.

This approach is nice because it integrates nicely with `markdown-preview-enhanced` on Atom, where you can see results on real time.

## Example of Active Code (Python3)

```
\```.python .exec cmd='codes/run_python3.sh'}  
...  
\```
```

Expected output is:

Hello  
World2

### Real test

```
print("Hello")  
x=2  
if x > 1:  
    print("World"+str(x))
```

*Output:*

Hello  
World2

# Example of Active Code hidden (Python2)

```
\```.python .exec cmd='codes/run_python2.sh'  
                                hide=true hide_code=true}  
print 'Hello'  
\```
```

## Real test

```
print 'Hello'
```

*Output:*

Hello

## Example of Active Code from file (Python3)

This is one of the most interesting approaches, just load script codes/example.py and execute it:

```
\```.python .exec cmd='codes/run_python3.sh' args="codes/example.py"  
                                         hide=true hide_code=true}  
\```
```

File example.py contains:

```
print("Example Hello World")
```

### Real test

*Output:*

Example Hello World



# Example of C++ Active Code

This is where we wanted to arrive on `codes/example.cpp`:

```
\```.cpp .exec cmd='codes/run_cpp.sh' args="codes/example.cpp"  
                                         hide=true hide_code=true}  
\```
```

File `example.cpp` contains:

```
#include<iostream>  
int main() {  
    std::cout << "Hello World" << std::endl;  
    return 0;  
}
```

## Real test

*Output:*

Hello World C++

# Ace Editor (on Atom)

For `markdown-preview-enhanced`, we can see Ace Editor (also on `revealjs`):

## Section 2

Finish

# Try more code types

Feel free to try other code types.

Ideally, we should be able to execute online code, but currently we lack a stable backend to integrate here (and a proper reward system to keep it up).

## Learning more

Please contribute with us if you find more nice things!