# Test Book

This book contains some special notebook cells that Open Education Project supports.

General cell tests are supported by Jupyter Book.

## 1. Special Displays

In this part of this book we will cover some cells that have special displays.

#### List:

- 1 A sample image that use customized styles
- 2 Display String in customized styles
- 3 Display terminal shell command results
- 4 Display bash command in customized styles
- 5 Use HTML and CSS to customize styles

#### 1.1. A sample image that use customized styles

Figure: A Sample Image that use special style

1.2. Display String in customized styles

# 0b10101110 = 0xAE

#### 1.3. Display terminal shell command results

#### 1.4. Display bash command in customized styles

```
$ man mkdir
                                                                              MKDIR(1)
MKDIR(1)
                                     User Commands
NAME
        mkdir - make directories
SYNOPSIS
       mkdir [OPTION]... DIRECTORY...
       Create the DIRECTORY(ies), if they do not already exist.
       Mandatory arguments to long options are mandatory for short options
        -m. --mode=MODE
               set file mode (as in chmod), not a=rwx - umask
        -p, --parents
               no error if existing, make parent directories as needed
        -v, --verbose
               print a message for each created directory
               set SELinux security context of each created directory to the
        -Z
        --context[=CTX]
               like -Z, or if CTX is specified then set the SELinux or SMACK
               security context to CTX
        --help display this help and exit
        --version
               output version information and exit
AUTHOR
       Written by David MacKenzie.
REPORTING BUGS
        GNU coreutils online help: <a href="https://www.gnu.org/software/coreutils/">https://www.gnu.org/software/coreutils/</a>>
        Report mkdir translation bugs to <a href="https://translationproject.org/team/">https://translationproject.org/team/</a>
COPYRIGHT
        Copyright © 2018 Free Software Foundation, Inc. License GPLv3+: GNU
        GPL version 3 or later < https://gnu.org/licenses/gpl.html>.
        This is free software: you are free to change and redistribute it.
       There is NO WARRANTY, to the extent permitted by law.
SEE ALSO
        mkdir(2)
        Full documentation at: <a href="https://www.gnu.org/software/coreutils/mkdir">https://www.gnu.org/software/coreutils/mkdir</a>
       or available locally via: info '(coreutils) mkdir invocation'
                                   September 2019
GNU coreutils 8.30
                                                                              MKDIR(1)
runner@fv-az335-299:~$
```

#### 1.5. Use HTML and CSS to customize styles

This is the example of image overlapping with backgrounds.



This is some sample texts.: This is some sample texts. This is some

sample texts. This is some sample texts. This is some sample texts. This is some sample texts. This is some sample texts. This is some sample texts. This is some sample texts. This is some sample texts. This is some sample texts. This is some sample texts. This is some sample texts. This is some sample texts.

## 2. Animation Examples

In this part of this book we will cover some special animated cells.

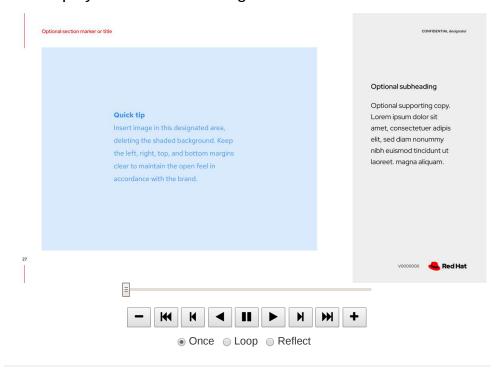
#### List:

- 1 Display bytes in special styles
- 2 Display series of slide images
- 3 Display html table
- 4 Display iframe other website
- 5 Display iframe other interactive media player
- 6 Display iframe interactive terminal media player

#### 2.1. Display bytes in special styles

| [ <i>b</i> <sub>7</sub> | b <sub>6</sub> | b <sub>5</sub> | b <sub>4</sub> | b <sub>3</sub> | b <sub>2</sub> | b <sub>1</sub> | <i>b</i> <sub>0</sub> ] |
|-------------------------|----------------|----------------|----------------|----------------|----------------|----------------|-------------------------|
| 1                       | 0              | 1              | 0              | 1              | 1              | 1              | 0                       |

### 2.2. Display series of slide images



## 2.3. Display html table

Table Shell Control Operators

| <b>Control Operator</b> | Description                               |  |  |
|-------------------------|---|--|--|
| newline                 | End of line                               |  |  |
| II                      | Or list operator                          |  |  |
| &&                      | And list operator                         |  |  |
| ;                       | Sequential list operator                  |  |  |
|                         | Pipe Operator                             |  |  |
| &                       | Background Operator                       |  |  |
| (                       | Subshell list begin Operator              |  |  |
| )                       | Subshell list end Operator                |  |  |
|                         | Case statement end matching Operator      |  |  |
| ;&                      | Case statement fall through Operator      |  |  |
| ;;&                     | Case statement continue matching Operator |  |  |

## 2.4. Display iframe - other website

```
display(IFrame("https://en.wikipedia.org/wiki/List_of_Unix_commands", height=600,
width="100%"))
```

#### WikipediA

## **List of Unix commands**

This is a list of  $\underline{\text{Unix}}$  commands as specified by  $\underline{\text{IEEE}}$  Std 1003.1-2008, which is part of the  $\underline{\text{Single UNIX Specification}}$  (SUS). These commands can be found on  $\underline{\text{Unix}}$  operating systems and most  $\underline{\text{Unix-like}}$  operating systems.





Utilities listed in POSIX.1-2017

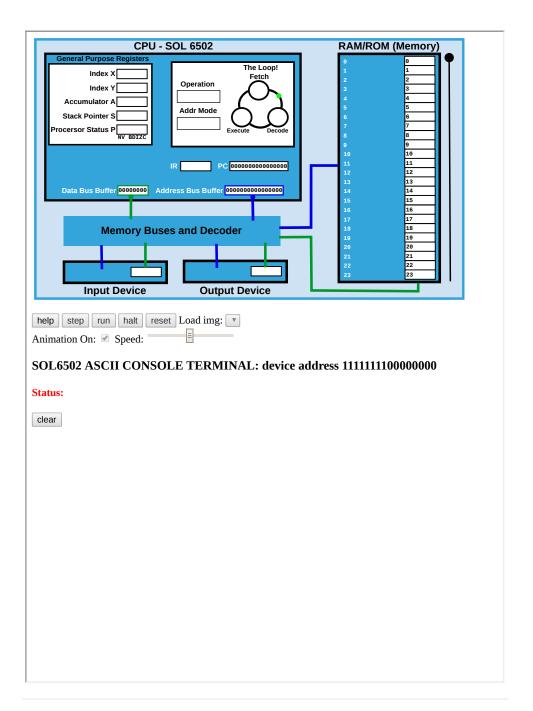
#### List

#### IEEE Std 1003.1-2008 utilities

| Name  | Category Status (Option code) |                | Description                          | First appeared |
|-------|-------------------------------|----------------|--------------------------------------|----------------|
| admin | SCCS                          | Optional (XSI) | Create and administer SCCS files     | PWB UNIX       |
| alias | Misc                          | Mandatory      | Define or display aliases            |                |
| ar    | Misc                          | Mandatory      | Create and maintain library archives | Version 1      |

## 2.5. Display iframe - other interactive media player

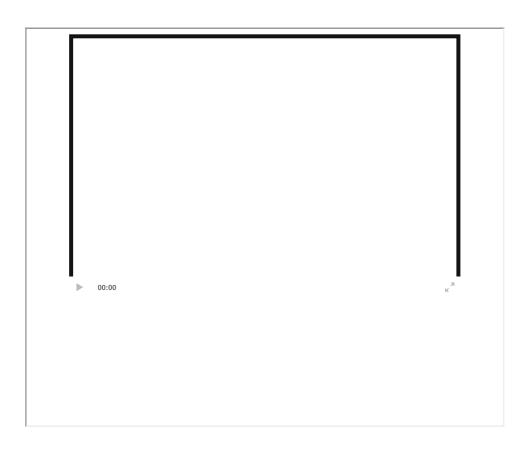
```
display(HTML('''
<iframe src="https://jappavoo.github.io/SOL6502/index.html", height="980px"
width="100%"></iframe>
'''))
```



#### 2.6. Display iframe - interactive terminal media player

Source code: https://jappavoo.github.io/SOL6502

```
display(HTML('''
  <iframe src="https://jappavoo.github.io/SOL6502/asciinema/atest.html",
  height="600x" width="100%"></iframe>
  '''))
```



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