

# Installing and Running decksh/pdfdeck

The screenshot shows a Visual Studio Code interface with two main windows. The top window displays a PDF document titled "installing and running decksh/pdfdeck". The bottom window shows the DSH (DeckScript) code used to generate the PDF. The code includes styling for slides, text elements, and images, along with terminal commands to run the code.

**PDF Content:**

installing and running decksh/pdfdeck

**Working setup**

Diagram illustrating the workflow:

- editor**: Where **decksh code** is edited and saved.
- viewer**: Where the output is rendered.
- commands**: Executed in the **terminal**.
- output**: The final rendered output.

**DSH Code (install-run.dsh):**

```
slide bgcolor fgcolor
ccontext "Working setup" mid top ts
rect 25 50 45 40 "blue" 30
rect 25 22 45 10 "maroon" 30
rect 74 44 49 53 "green" 30

image "images/save.png" 30 62 1200 1200 5
image "images/picture.png" 75 22 1200 1200 5
image "images/exec.png" 30 22 1200 1200 5

text "decksh code" 5 60 3.5
text "commands" 5 20 3.5
ccontext "output" 75 60 3.5

text "edit/save" 35 60 2
text "execute" 35 20 2
text "render" 80 20 2

lcarrow 75 23 75 60 45 61 0.2 2 2 fgcolor
arrow 30 58 30 25 0.2 2 2 fgcolor
arrow 43 21 70 21 0.2 2 2 fgcolor

text "editor" 5 75 capsise capfont
text "terminal" 5 10 capsise capfont
text "viewer" 55 75 capsise capfont
eslide

TERMINAL PROBLEMS OUTPUT DEBUG CONSOLE
```

**Terminal Output:**

```
$ dr install-run.dsh -pagesize 900x600 -sans GillSans -mono Inconsolata-Medium -serif Charter-Italic
```

# Installing

# Installing using go and git

```
$ go install github.com/ajstarks/decksh/cmd/decksh@latest
```

Install the latest version of decksh

```
$ go install github.com/ajstarks/deck/cmd/pdfdeck@latest
```

Install the latest version of pdfdeck

```
$ git clone https://github.com/ajstarks/deckfonts $HOME/deckfonts
```

Install fonts into \$HOME/deckfonts

```
$ decksh -help
```

```
$ pdfdeck -help
```

Do a test run of decksh and pdfdeck

# Installing decksh and pdfdeck binaries

<https://github.com/ajstarks/decksh/tree/master/cmd/decksh/binaries>

Pick your type, download,  
rename to 'decksh', place  
where your apps live.



📄 darwin-amd64-decksh	1 hour ago
📄 darwin-arm64-decksh	1 hour ago
📄 linux-amd64-decksh	1 hour ago
📄 windows-386-decksh.exe	1 hour ago
📄 windows-amd64-decksh.exe	1 hour ago

<https://github.com/ajstarks/deck/tree/master/cmd/pdfdeck/binaries>

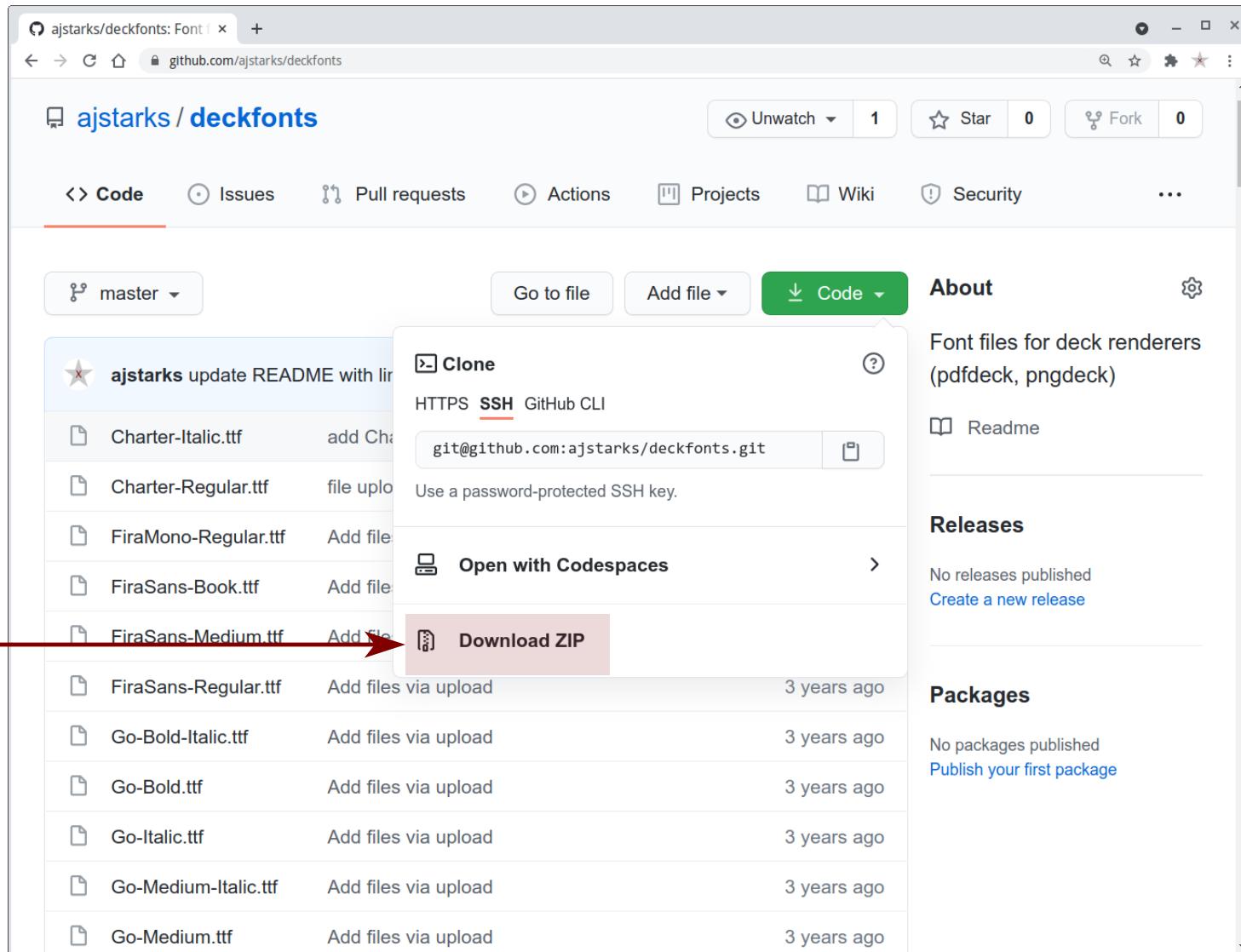
Pick your type, download,  
rename to 'pdfdeck', place  
where your apps live.



📄 darwin-amd64-pdfdeck	1 hour ago
📄 darwin-arm64-pdfdeck	1 hour ago
📄 linux-amd64-pdfdeck	1 hour ago
📄 windows-386-pdfdeck.exe	1 hour ago
📄 windows-amd64-pdfdeck.exe	1 hour ago

# Downloading the fonts

Download, unzip  
to your home  
directory.



# Fonts Catalog

# Default Fonts

Times      times timesi timesi timesb timesbi

Hamburgervons 0123456789

Helvetica    helvetica helvetica helvetica helvetica

Hamburgervons 0123456789

Courier     courier courieri courierb courierbi

Hamburgervons 0123456789

# Alternative serif, sans, mono

Charter Charter-Regular Charter-Italic

Hamburgevons 0123456789

Fira Sans FiraSans-Book FiraSans-Medium FiraSans-Regular

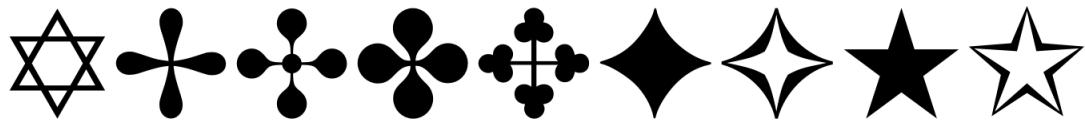
Hamburgevons 0123456789

Inconsolata Inconsolata-Regular Inconsolata-Bold Inconsolata-Medium Inconsolata-Condensed

Hamburgevons 0123456789

# Symbol fonts

Zapf Dingbats      zapfdingbats



Gophers      gophers



State Face      stateface



Wee People      weepeople



# Running



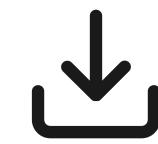
# Workflow



command



render



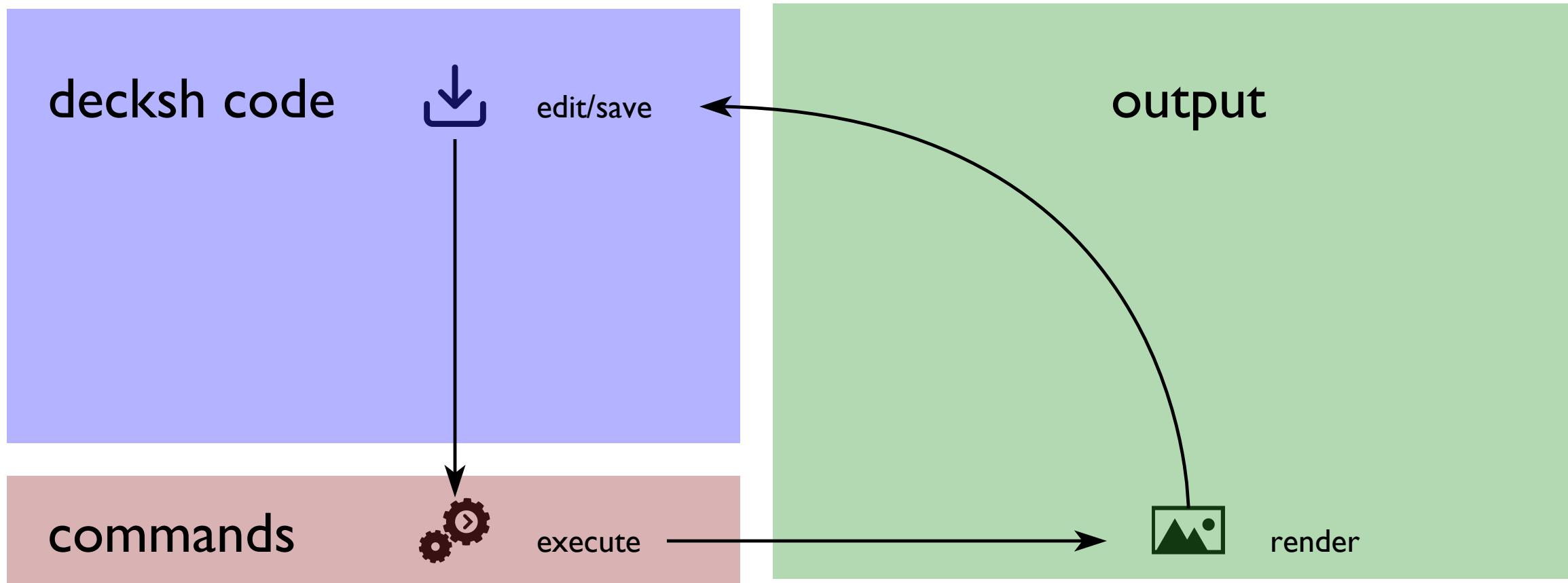
edit/save



# Working setup

editor

viewer



terminal

# VSCode: Editor for Mac, Windows, and Linux

decksh code with  
syntax highlighting



```
//hello.world
deck
→   slide "black" "white"
→   →   ctext "hello, world" 50 25 10
→   →   circle 50 0 100 "blue"
→   eslide
edeck
```

Integrated terminal



TERMINAL PROBLEMS OUTPUT ...

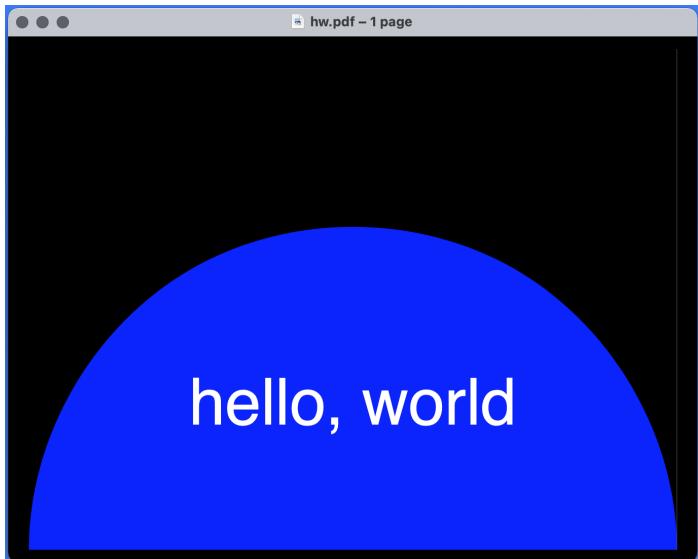
\$

Status showing decksh mode

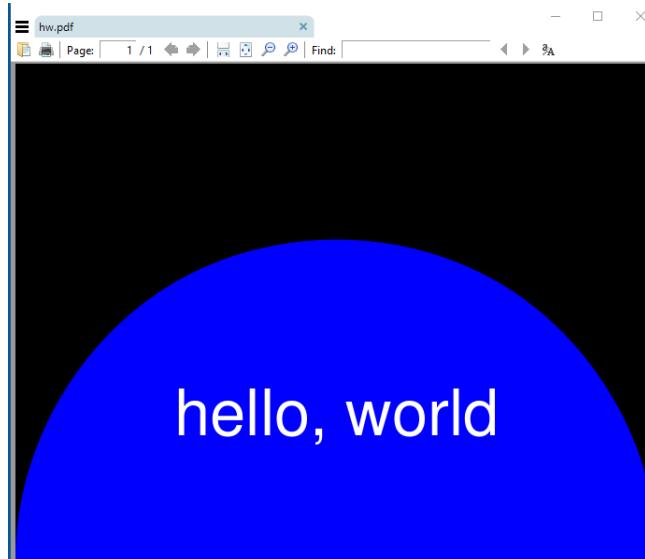


master\* ⚡ 0 0 ⚡ decksh | ✓ hw.dsh LF decksh ⚡ ⚡

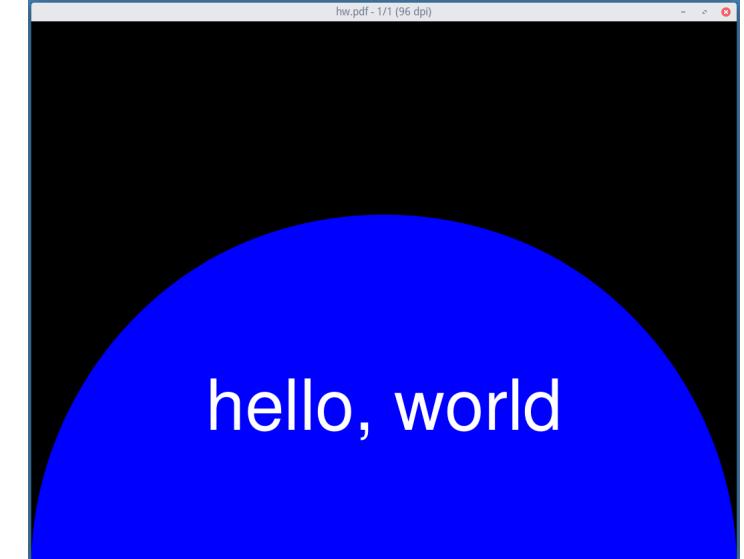
# PDF Readers



Mac: Preview



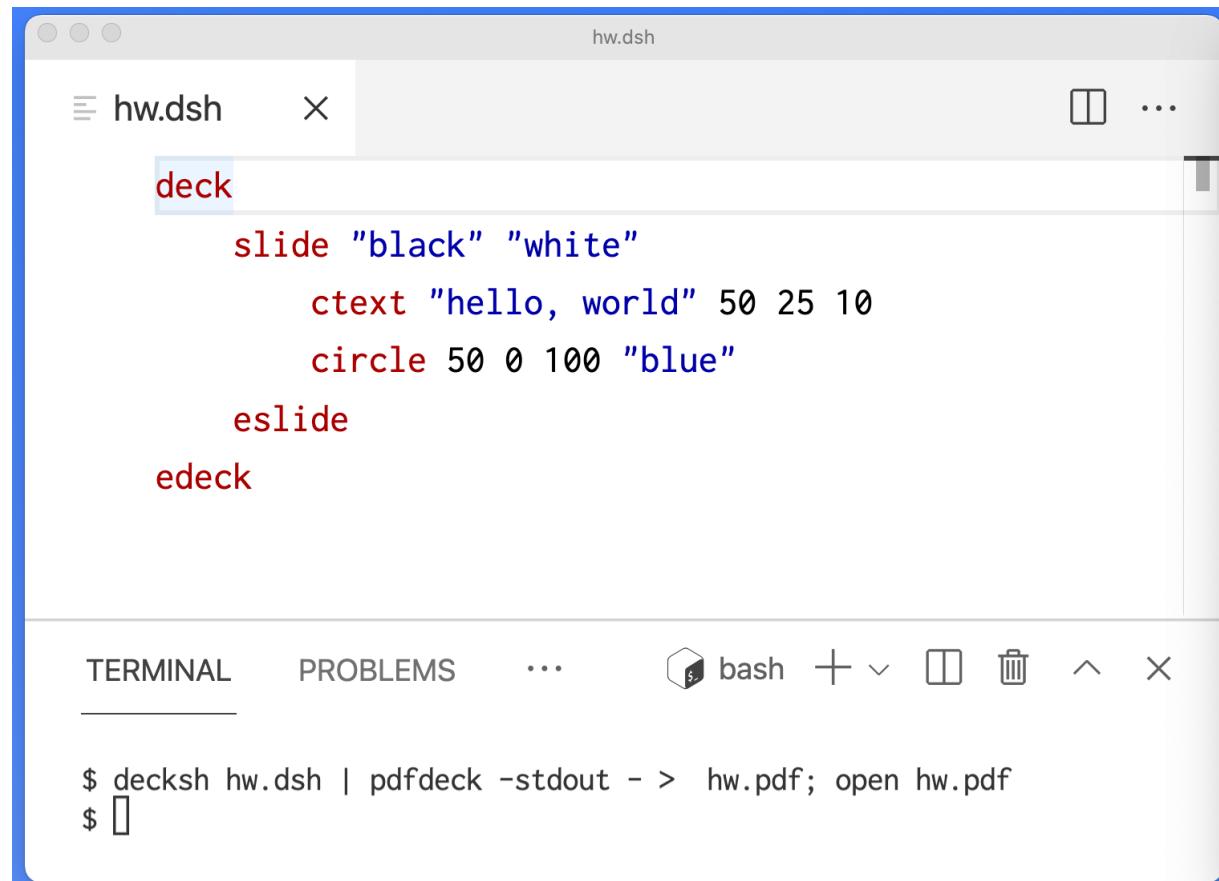
Windows: Sumatra PDF



Linux: mupdf

# Mac OS

editor: VSCode



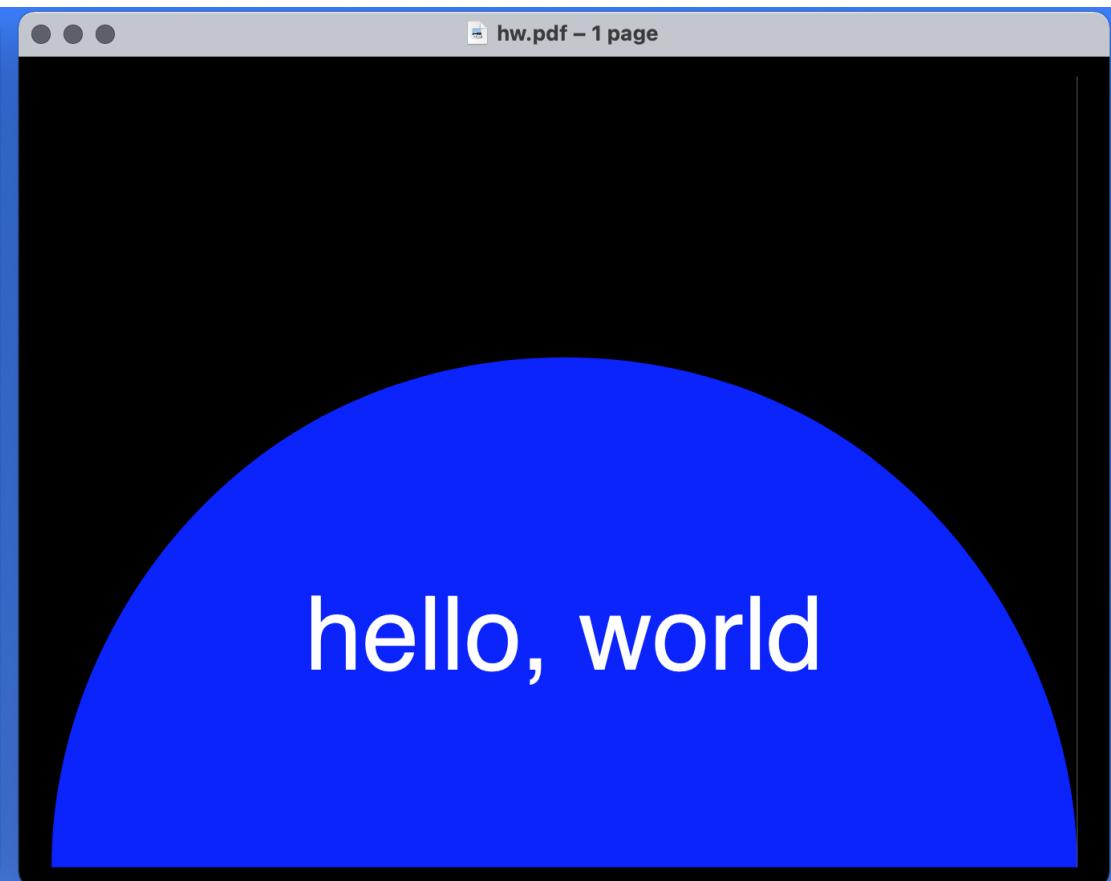
A screenshot of the VSCode editor window titled "hw.dsh". The code in the editor is:

```
deck
  slide "black" "white"
    ctext "hello, world" 50 25 10
    circle 50 0 100 "blue"
  eslide
edeck
```

The editor interface includes tabs for TERMINAL, PROBLEMS, and a bash terminal at the bottom. A command line at the bottom shows the execution of the code:

```
$ decksh hw.dsh | pdfdeck -stdout - > hw.pdf; open hw.pdf
$
```

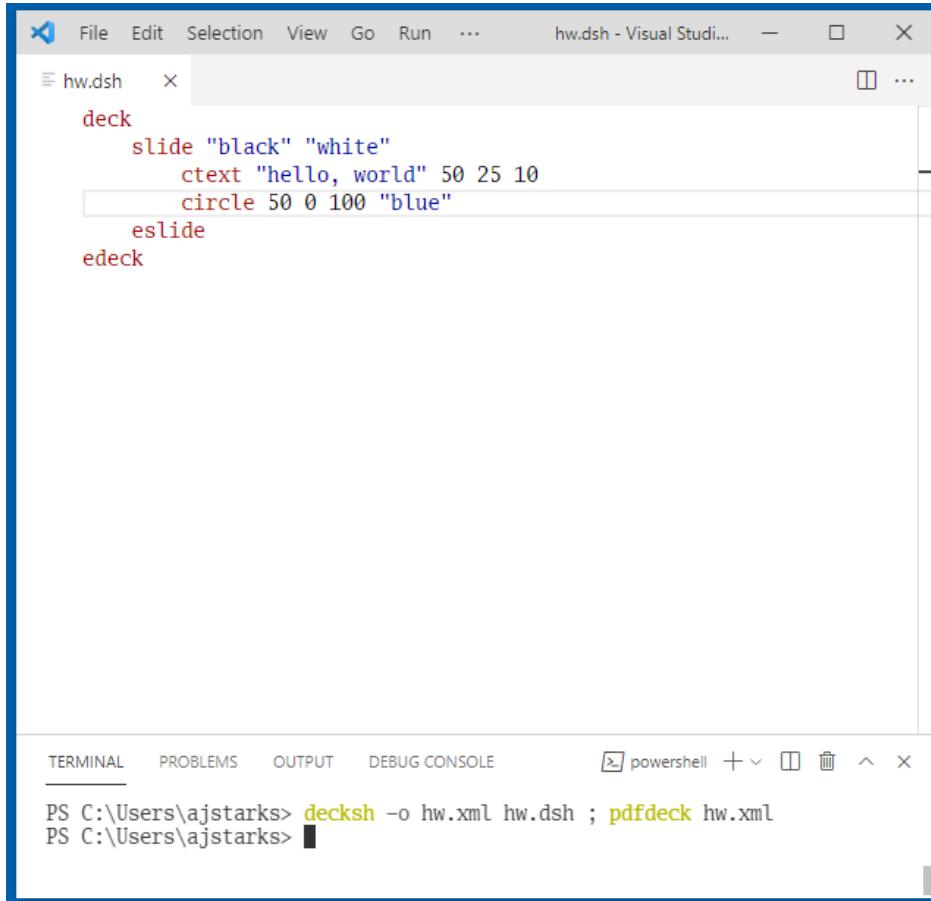
viewer: Preview



terminal: VSCode

# Windows

editor: VSCode



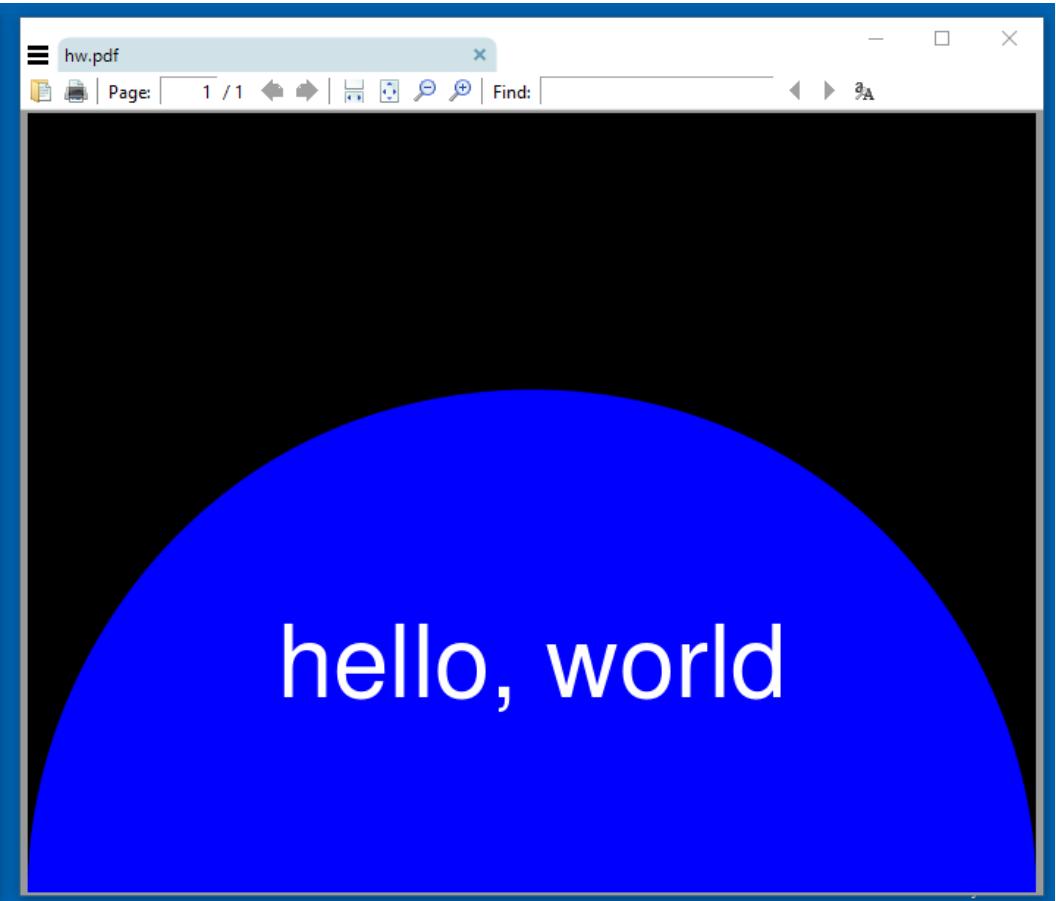
A screenshot of the Visual Studio Code (VSCode) interface. The top menu bar includes File, Edit, Selection, View, Go, Run, and others. A tab bar shows "hw.dsh". The main editor area contains the following text:

```
deck
  slide "black" "white"
    ctext "hello, world" 50 25 10
    circle 50 0 100 "blue"
  eslide
edeck
```

The bottom navigation bar includes TERMINAL, PROBLEMS, OUTPUT, DEBUG CONSOLE, and a powershell tab. The terminal pane shows the command:

```
PS C:\Users\ajstarks> decksh -o hw.xml hw.dsh ; pdfdeck hw.xml
PS C:\Users\ajstarks>
```

viewer: Sumatra PDF



terminal: VSCode

# Linux

editor: VSCode

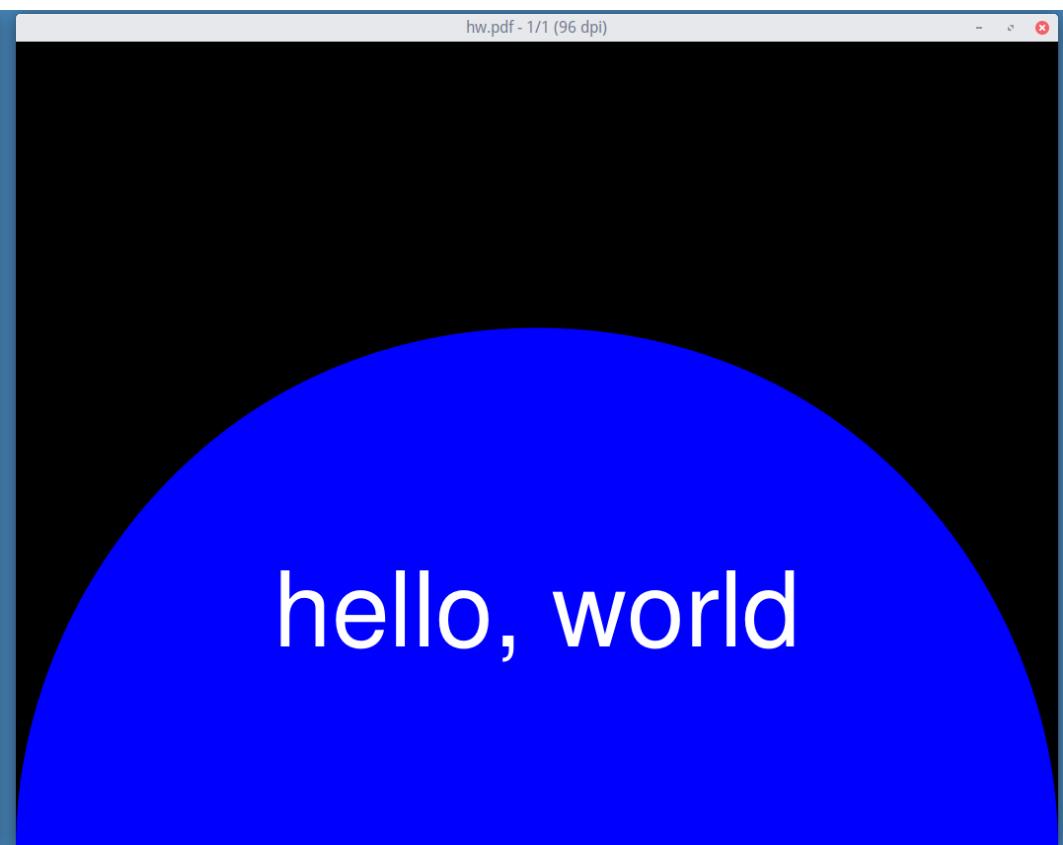
A screenshot of Visual Studio Code. The main editor tab is titled "hw.dsh - Visual Studio Code". It contains the following code:

```
//·hello·world
deck
→   slide · "black" · "white"
→   →   ctext · "hello, world" · 50 25 10
→   →   circle · 50 · 0 · 100 · "blue"
→   eslide
edeck
```

The terminal window at the bottom shows the command:

```
$ decksh -o hw.xml hw.dsh ; pdfdeck hw.xml; mupdf hw.pdf &
[1] 135932
$
```

viewer: mupdf



terminal: VSCode

# Render

The screenshot displays a development environment with two main windows and a terminal window at the bottom.

**Left Window:** A code editor showing a DSH (DeckScript) file named `hw.dsh`. The code defines a slide with black background, white text "hello, world", and a blue circle at position 50 0 100.

```
File Edit Selection View Go Run ... hw.dsh - Visual Studio...
hw.dsh
deck
  slide "black" "white"
    ctext "hello, world" 50 25 10
    circle 50 0 100 "blue"
  eslide
edeck
```

**Right Window:** A PDF viewer showing the rendered output. The page has a black background with a large blue circle centered on it. Inside the blue circle, the text "hello, world" is displayed in white.

**Bottom Terminal:** A PowerShell terminal window showing the command used to generate the PDF.

```
PS C:\Users\ajstarks> decksh -o hw.xml hw.dsh ; pdfdeck hw.xml
PS C:\Users\ajstarks>
```

# Update

The screenshot displays a development environment with two main windows and a terminal window at the bottom.

**Left Window:** A code editor showing a file named `hw.dsh`. The content of the file is:

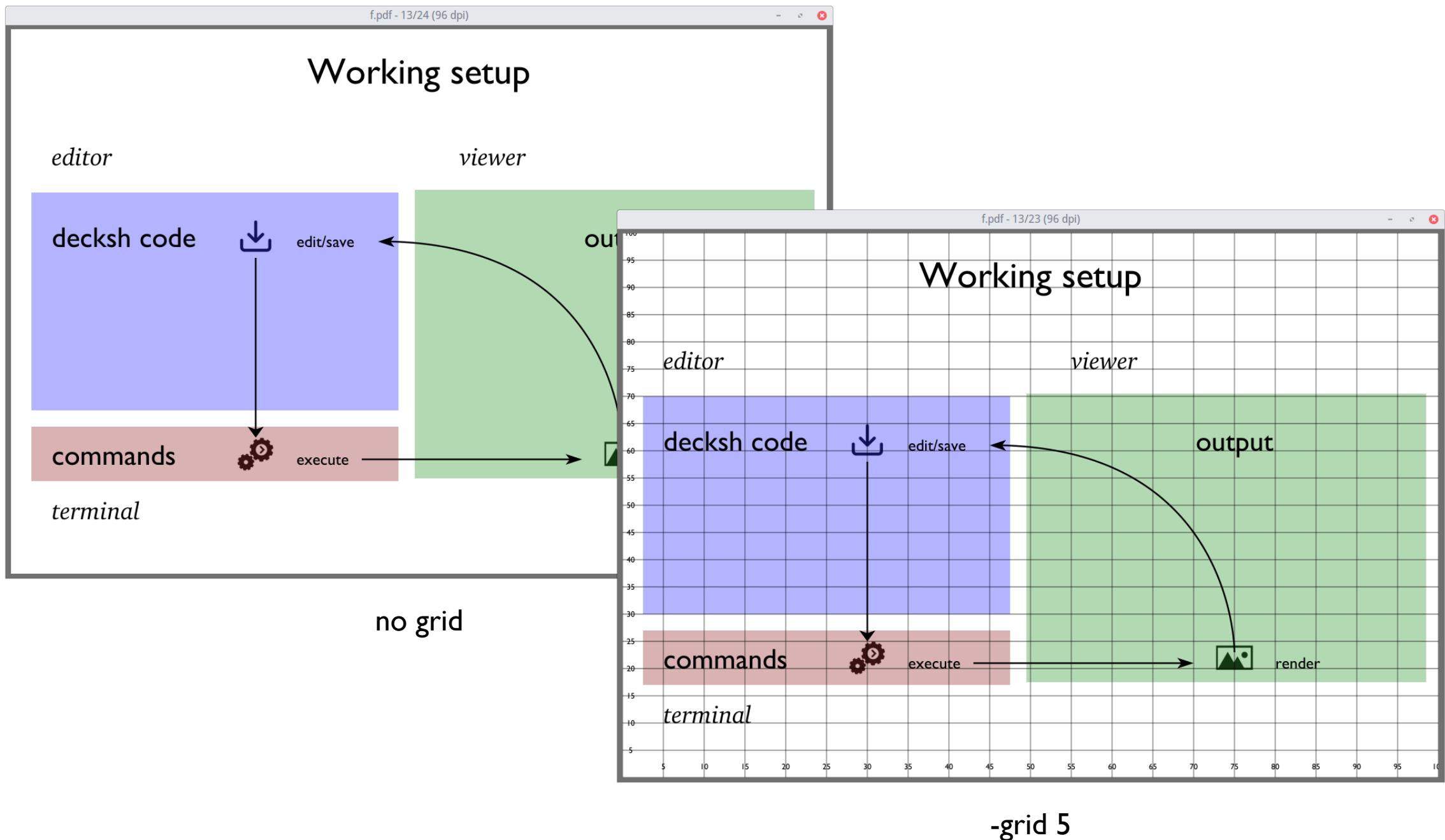
```
deck
  slide "black" "white"
    ctext "hello, world" 50 25 10
    circle 50 0 100 "green"
  eslide
edeck
```

**Right Window:** A PDF viewer showing a single page titled `hw.pdf`. The page contains the text "hello, world" in white, centered within a large green circle on a black background.

**Terminal Window:** Shows PowerShell command history:

```
PS C:\Users\ajstarks> decksh -o hw.xml hw.dsh ; pdfdeck hw.xml
PS C:\Users\ajstarks> decksh -o hw.xml hw.dsh ; pdfdeck hw.xml
PS C:\Users\ajstarks>
```

# Using the -grid option



# VSCode setup

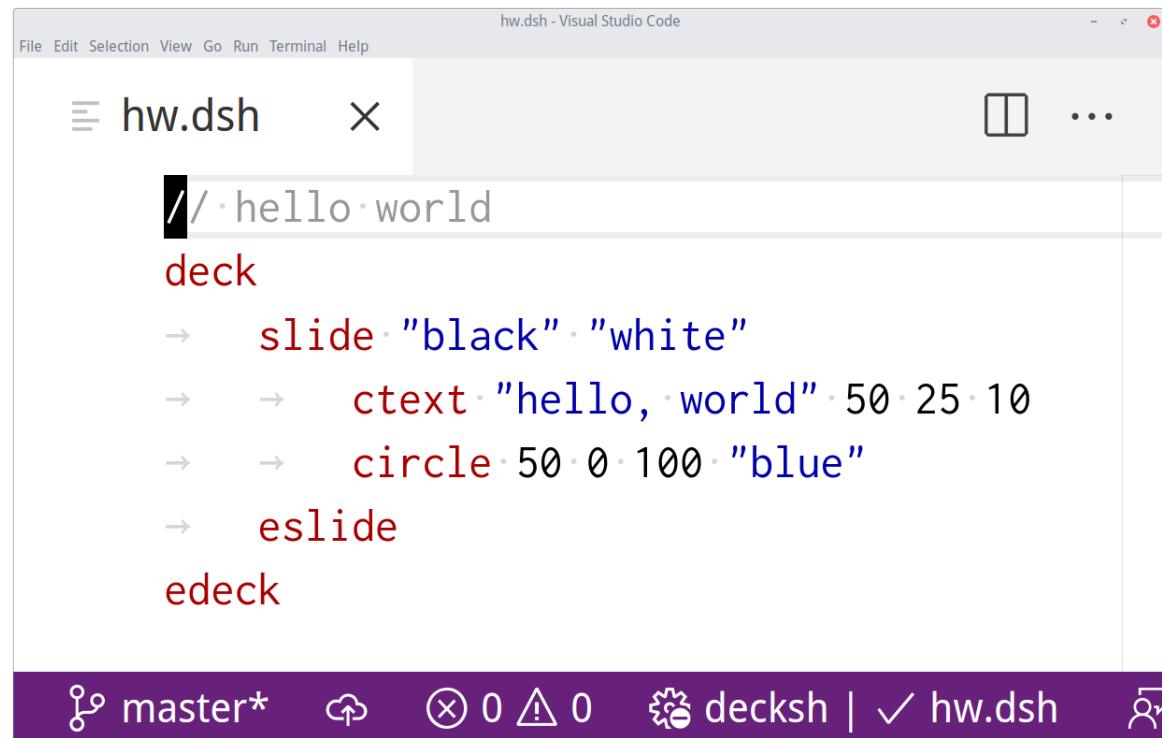
copy this to your settings

```
"editor.tokenColorCustomizations": {  
    "textMateRules": [  
        {  
            "scope": "keyword.other.command.decksh",  
            "settings": {  
                "foreground": "#AA0000"  
            }  
        },  
        ...  
    ]  
},  
...  
}
```

copy to .vscode/extensions/ajstarks.decksh-1.0.0

<https://github.com/ajstarks/decksh/tree/master/vscode>

..		
📁 syntax	add textbox as an alternative to textblock	yesterday
📄 README.md	add documentation and testing files	16 months ago
📄 language-configuration.json	add documentation and testing files	16 months ago
📄 package.json	add documentation and testing files	16 months ago



# vim setup

copy to .vim

<https://github.com/ajstarks/decksh/tree/master/vim>

..		
ftdetect	add vim support	2 minutes ago
syntax	add vim support	2 minutes ago



A screenshot of a terminal window titled "ajstarks@slab:~/gocode/decksh/doc — vim code/hw.dsh". The window displays the following Vim configuration code:

```
// hello world
deck
    slide "black" "white"
        ctext "hello, world" 50 25 10
        circle 50 0 100 "blue"
    eslide
edeck
~
```

The code uses syntax highlighting where "deck", "slide", "ctext", "circle", and "eslide" are colored red, while the rest of the text is black.

# Sublime Text setup

copy to dsh.sublime-build  
and dsh.sublime-syntax  
to Sublime user  
package directory,  
copy dpdfr to  
your PATH

<https://github.com/ajstarks/decksh/tree/master/sublime-text>

Name	Last commit message	Last commit date
..		
dpdfr	update sublime text build script	6 minutes ago
dsh.sublime-build	add sublime text build system	6 months ago
dsh.sublime-syntax	add textblockfile	4 months ago

The image shows two windows side-by-side. On the left is a Sublime Text editor window titled 'hello-world.dsh'. It contains the following code:

```
// hello world
deck
    slide "black" "white"
        ctext "hello, world" 50 25 10
        circle 50 0 100 "blue"
    eslide
edeck
```

Below the code, the text 'CTRL-B to build and display' is visible. At the bottom of the editor, it says '[Finished in 33ms]'. The status bar at the bottom shows 'Line 1, Column 1', 'Tab Size: 4', and 'dsh'.

On the right is a PDF viewer window titled 'f.pdf - 1/1 (72 dpi)'. It displays a single slide with a blue circle containing the text 'hello, world' on a black background.

# The command line

# decksh command usage

decksh	read from stdin, write to stdout
decksh in.dsh	read from file, write to stdout
decksh -o out.xml	read from stdin, write to file
decksh -o out.xml in.dsh	read from file, write to file
decksh -version	show version
decksh -var name=value ...	assign a variable
decksh -dump ...	dump assignments

**decksh example.dsh | pdfdeck ...**

# pdfdeck [options] *inputfile*

Option	Default	Description
-sans	helvetica	Sans Serif font
-serif	times	Serif font
-mono	courier	Monospace font
-symbol	zapfdingbats	Symbol font
-pages	1-1000000	Pages to output (first-last)
-layers	image:rect:ellipse:curve:arc:line:poly:text:list	Drawing order
-grid	0	Draw a grid at specified % (0 for no grid)
-pagesize	Letter	Page size (w,h or Legal, Tabloid, A[3-5], ArchA, 4R, Index)
-fontdir	\$HOME/deckfonts	Font directory
-outdir	Current directory	Output directory
-stdout	false	Output to standard output
-author	""	Document author
-title	""	Document title

# command examples

```
decksh -o file.xml file.dsh; pdfdeck file.xml  
process file.dsh to file.xml to file.pdf
```

```
decksh file.dsh | pdfdeck -stdout - > output.pdf  
Pipe the output from decksh, making output.pdf
```

```
pdfdeck -pagesize 1920,1080 -pages 10-20 -grid 5 file.xml  
render pages 10-20 to file.pdf, page size of 1920 (width) x 1080 (height) pixels, on a 5% grid
```

```
pdfdeck -sans FiraSans-Regular -serif Charter-Regular -mono Inconsolata-Bold file.xml  
use FiraSans-Regular.ttf, Charter-Regular.ttf, and Inconsolata-Bold.ttf from the deckfonts directory
```

```
echo file.dsh|entr -s 'decksh file.dsh|pdfdeck -stdout - > f.pdf; pkill -HUP mupdf'  
When file.dsh changes, make f.pdf, and refresh the viewer
```