

Workshop

F

D

Preparation

K

Code editors (Mac)

Sublimetext



\$\$\$ or
free trial

BEdit
TextWrangler



\$\$\$
free

TextMate



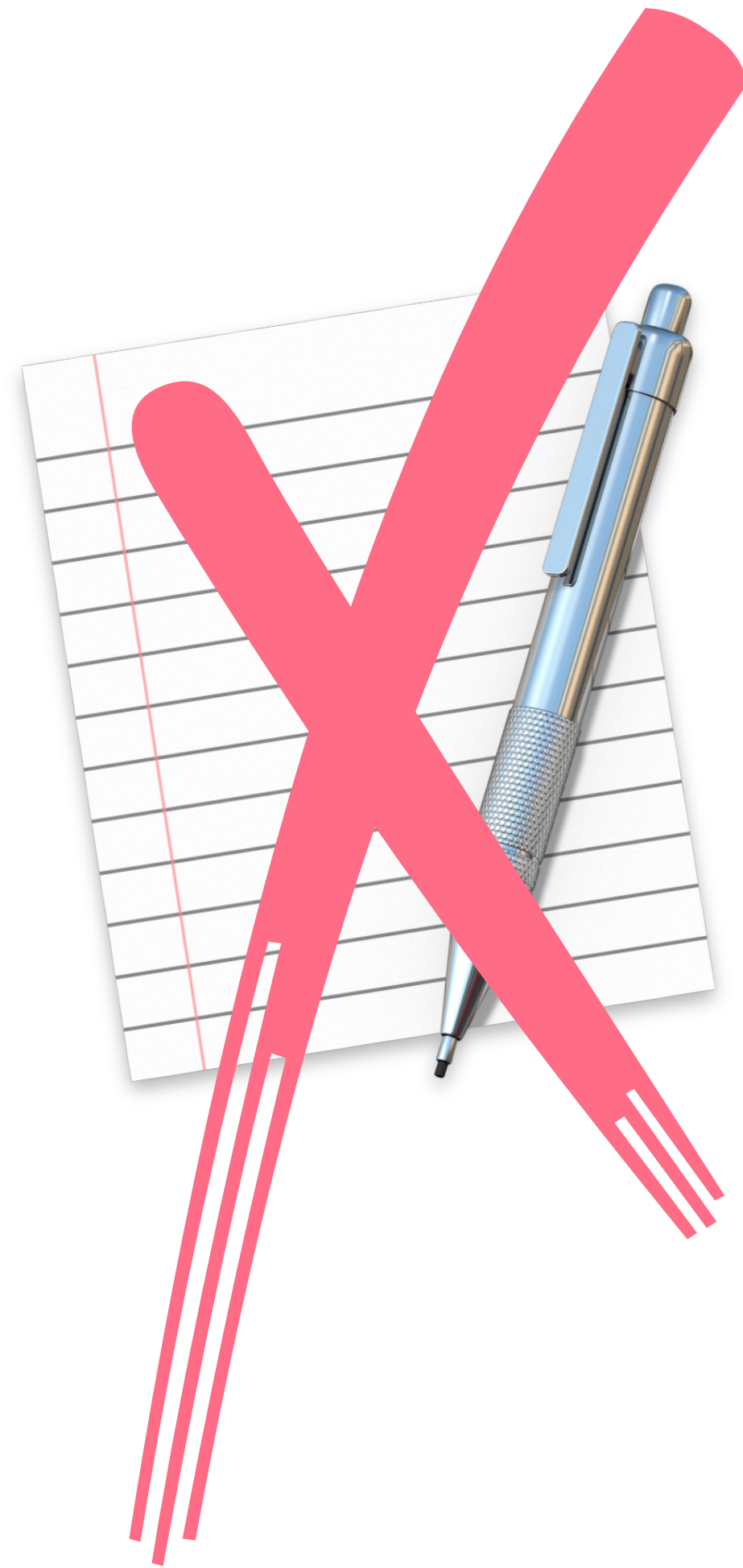
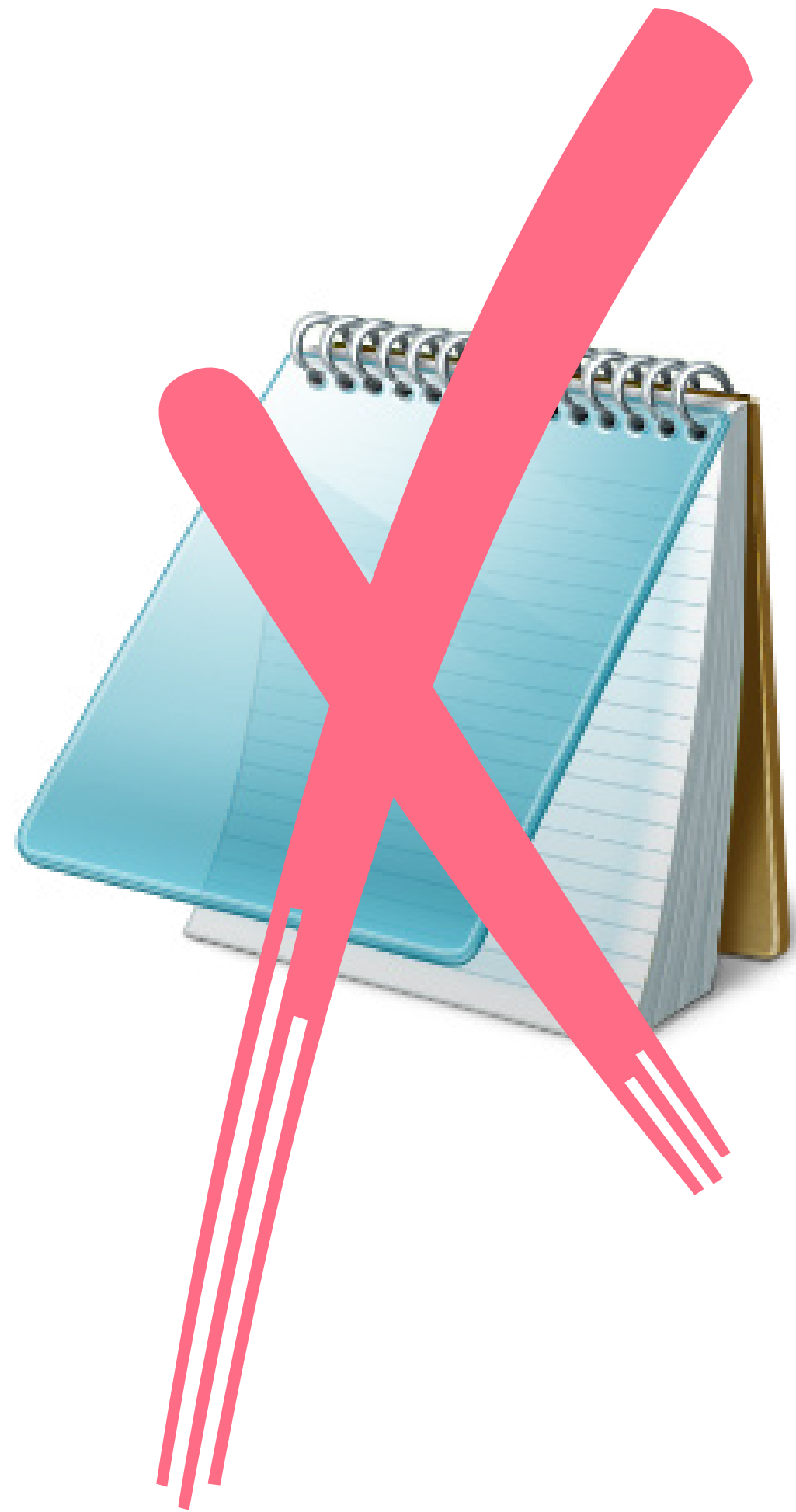
free

Coda



\$\$\$

Don't use those!



Please: Don't use TextEdit, Notepad, MS Word or similar!

You will run into all sorts of problems when not using a dedicated code editor.



The command line

The most basic way to access and control any computer.

Knowing a little about the command line will help in many situations.

Let's open the Terminal!

The Terminal is found at
~/Applications/Utilities (cmd-shift-U)

Text **marked like this** is a command you can enter.

A screenshot of a macOS Terminal window. The window has a title bar with three colored window control buttons (red, yellow, green) on the left. The background is black, and the text is white. The prompt is a red tilde followed by a dollar sign (~\$). The first command entered is 'say I am a computer', which is highlighted in green. The second command entered is 'pwd', also highlighted in green. The output of the 'pwd' command is '/Users/frank'. The prompt is followed by a red tilde and a dollar sign (~\$).

```
~$ say I am a computer
```

```
~$ pwd
```

```
/Users/frank
```

```
~$
```

Basic commands for working with files:

print working directory, show the current folder

change directory up one folder

change directory into *foldername*

change directory to “home” folder

list folder contents

list folder contents showing invisible files, and file info

open Finder window in current directory

open file with the associated application

output to a file (overwrites existing or creates new file)

add output to end of existing file

```
pwd
```

```
cd ..
```

```
cd foldername
```

```
cd ~ or cd
```

```
ls
```

```
ls -al
```

```
open .
```

```
open filename
```

```
ls -l >file.txt
```

```
ls -l >>file.txt
```

Other basic commands:

print a useful *banner*
filter command to only show lines containing "D" ("pipe")

auto-complete file- and folder names
move through command history

insert path to a file or folder
insert path to a file or folder

jump to beginning of command
jump to end of command
clear screen
clear current command

```
banner "Hello"  
ls -l | grep "D"
```

Tab key
Arrow keys ↑ ↓

drag & drop from Finder
copy & paste

ctrl-A
ctrl-E
ctrl-L *cmd-K*
ctrl-U

Change your Terminal settings.

The Terminal settings can be streamlined to be less confusing. Open the Terminal and navigate to your home directory.

Open the settings file with TextWrangler (it will be created if it does not yet exist):

```
edit .bash_profile
```

The file might be empty or already have data in it. Add the following line at the bottom to modify the Terminal's standard prompt:

```
export PS1="\W\$ "
```

End the line with a return. Save the file, close it and open a new Terminal window. Changes should be visible immediately.

Install the FDK

Macintosh

- [Download installer file](#)
- Unzip installer
- Move the FDK folder to a desired location on your hard drive, e.g.
~/development/FDK
- Open Terminal
- Run **./FinishInstallOSX**
- For testing successful installation, run the command **autohint -u** (will show usage info for autohint)

Windows

- [Download installer file](#)
- Unzip installer
- Move the FDK folder to a desired location on your hard drive
- Open the Command Prompt
- Run **FinishInstallWindows.cmd**
- Restart the system
- For testing successful installation, run the command **autohint -u** (will show usage info for autohint)

Get additional FDK tools.

Go to

<https://github.com/adobe-type-tools/>

Look for the folder **python-scripts**.

Download the ZIP archive.



Download ZIP

Unzip and move all the Python files to your FDK folder, e.g.

~/development/FDK/Tools/osx

Do the same for the folder *python-modules* at

<https://github.com/adobe-type-tools/python-modules>

Get TTX/FontTools and Robofab

Download Just van Rossum's **FontTools** from Github
(as outlined in the page before):

<https://github.com/behdad/fonttools.git>

Download **Robofab** from Github:

<https://github.com/robofab-developers/robofab>

Move the packages to a new folder , e.g.

~/development/

and unzip them there.

Create .pth file

A .pth file tells Python where to look for modules. With this file, will make Python understand that Robofab and fontTools are installed.

Create a file with the extension **.pth**, following the model below (**you** is your user name, and **development** is the folder created just before).

Save it in **Macintosh HD/Library/Python/2.7/site-packages** (you will need to enter your password for this.)

```
/Users/you/development/fonttools-2.4/Lib  
/Users/you/development/robofab-master/Lib
```


Test the installation

Run Python, and import the two freshly-installed modules.

If nothing happens, everything is installed correctly!

Exit Python with ctrl-D.



```
~$ python
```

```
Python 2.7.5 (default, Nov 20 2018, 20:41:59)
```

```
>>> import robofab
```

```
>>> import fontTools
```

```
>>>
```

Preparation done!

If everything worked out the way it should, we are ready to start working on some fun exercises!

Learning more about the command line:

The Command Line Crash Course is good, and free:

<http://cli.learncodethehardway.org/book/>

The *Advanced Bash Scripting Guide* is a historical document. It has everything, and more.

Available in many forms, one of them here: <http://www.tldp.org/LDP/abs/html/>