

A sunset scene with a sky filled with soft, colorful clouds in shades of orange, pink, and blue. In the bottom left corner, the silhouettes of several palm trees are visible against the bright horizon. The overall mood is peaceful and scenic.

Puppy Linux

running on a

Compaq 2200

(Thanks to Linda for the kind donation)

Compaq 2200

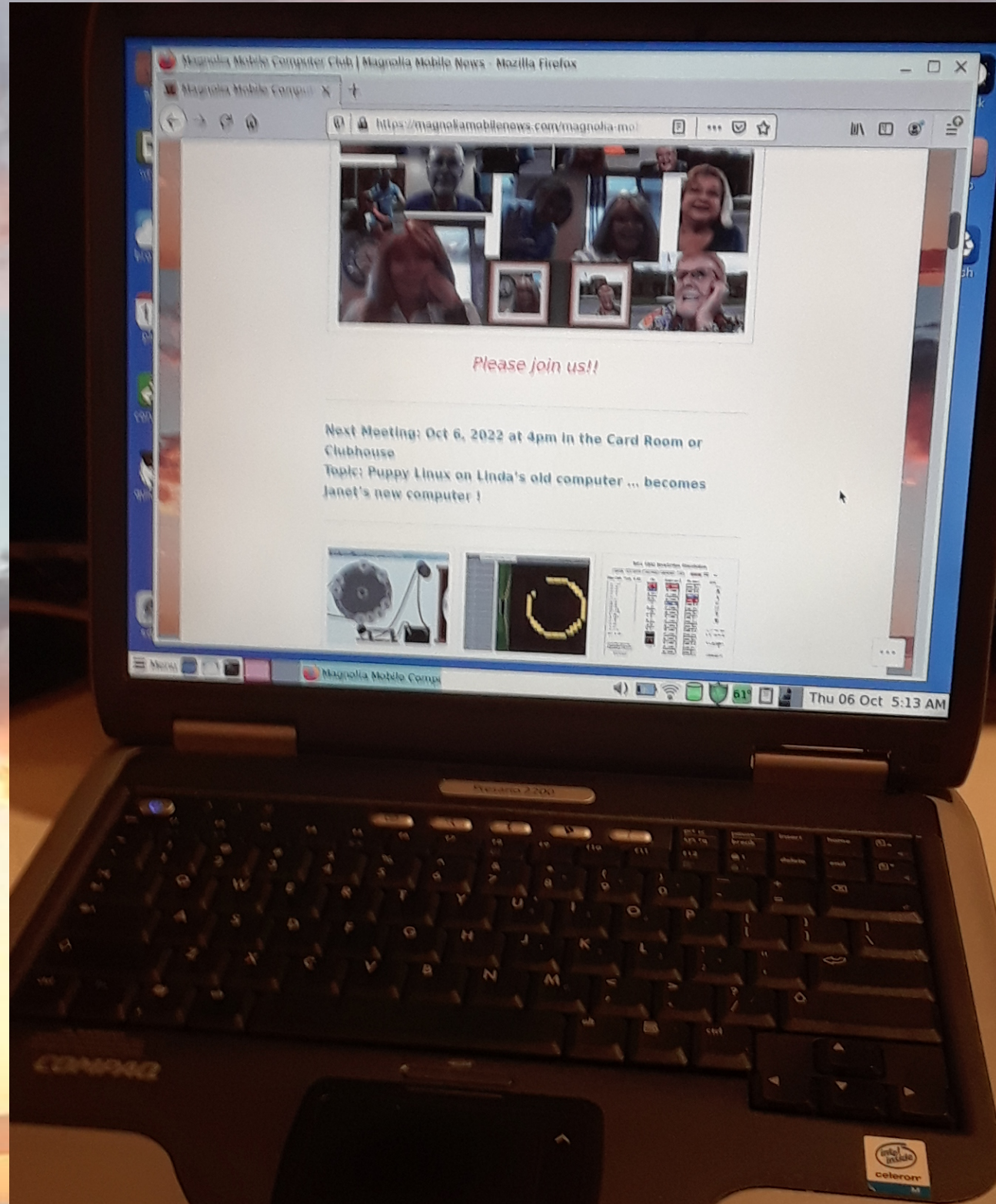
Made in 2004

Intel Celeron Processor

736 MB RAM

75 GB Hard Drive

Came with Windows XP



Review of Computer Files and Partitions

A “file” is a bunch of 0’s and 1’s that are stored together to represent “something”:

- Document**
- Picture**
- Video**
- Web Page**
- Program**
- Operating System**
:
- Anything!!**



Where are files stored?

Old days: “Hard Drive”



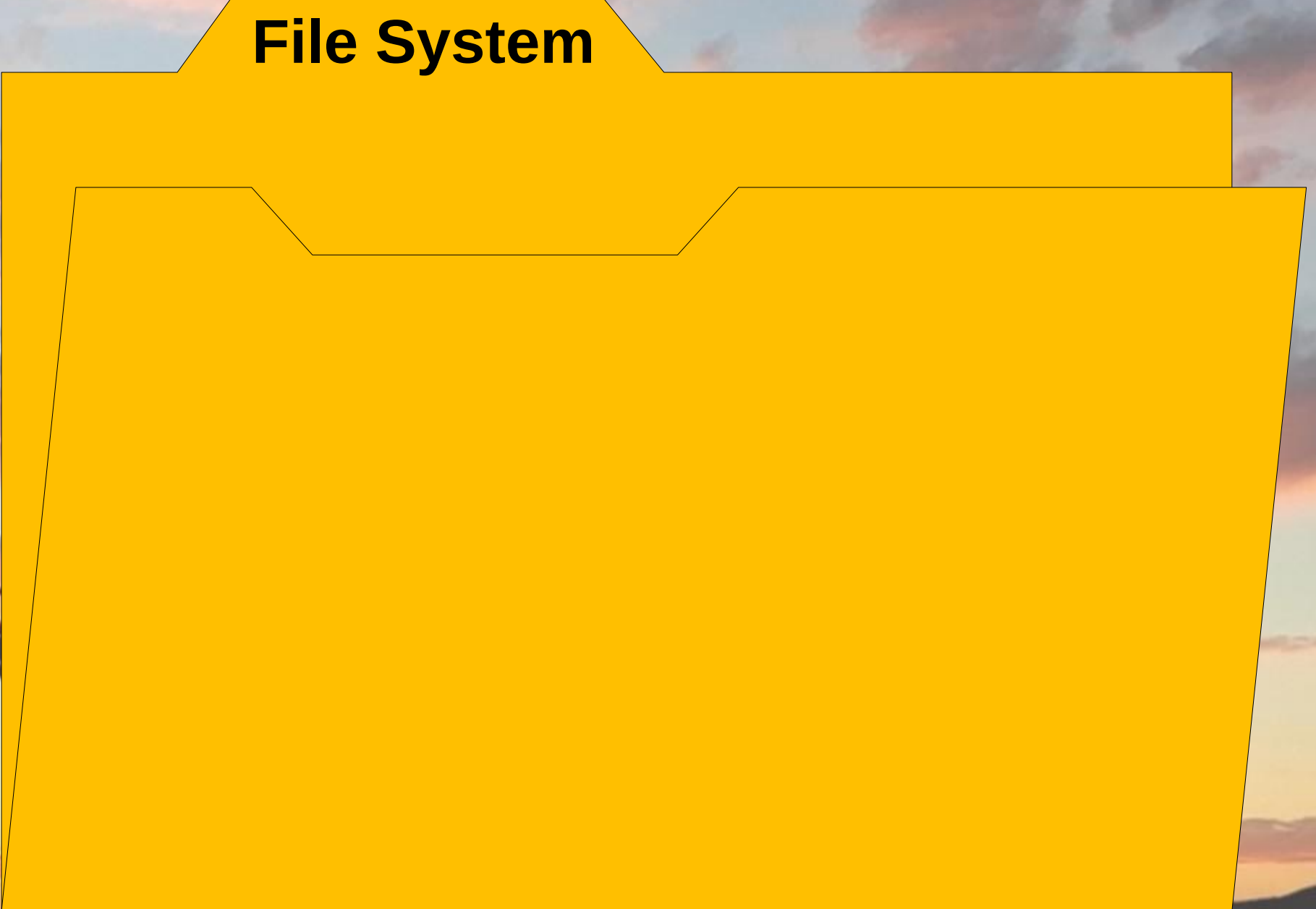
Where are files stored?

Newer Computers: “SSD” (“Solid State Drive”)



Logical Description of a File System

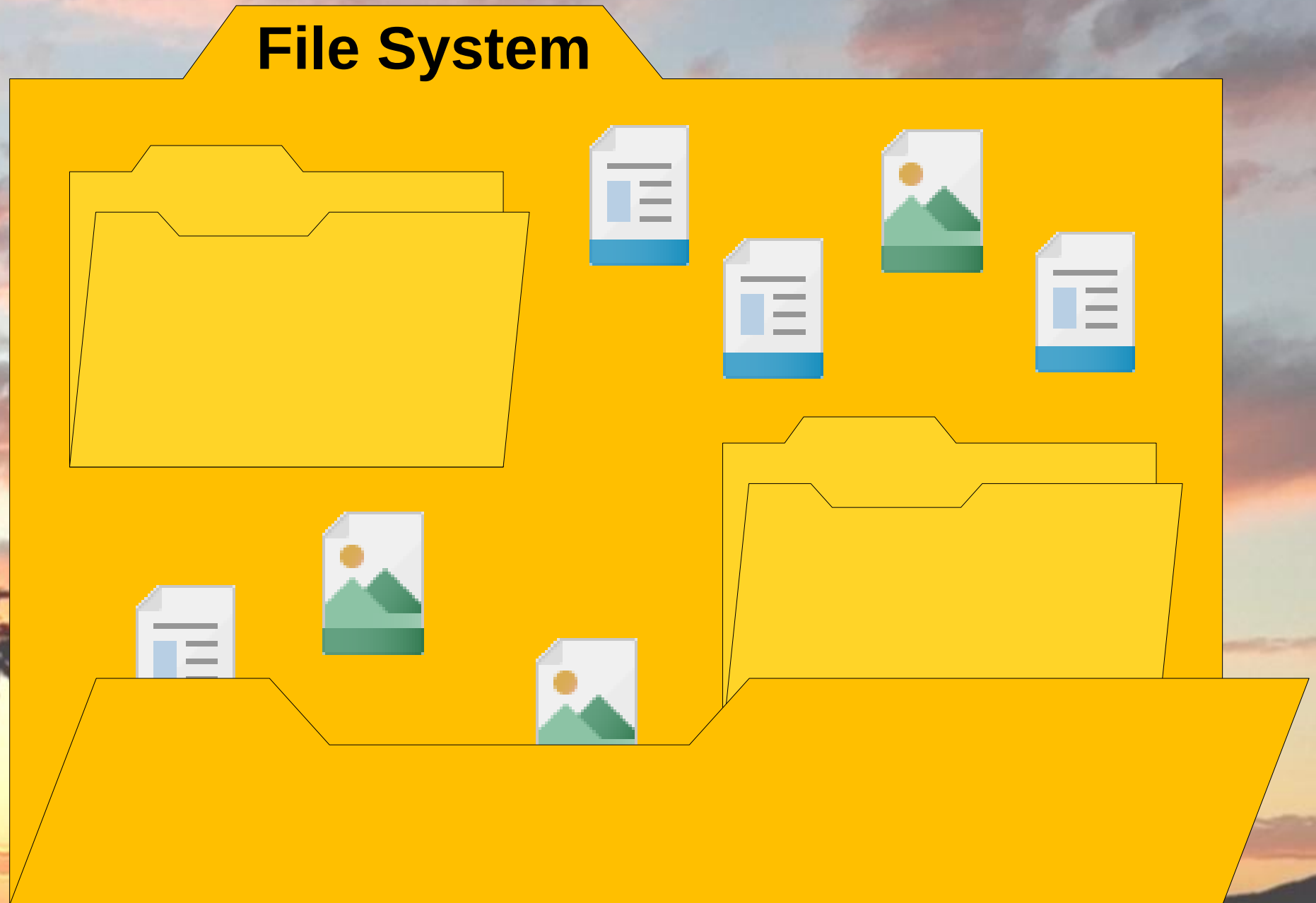
Files/Folders inside Files/Folders inside ...



File System

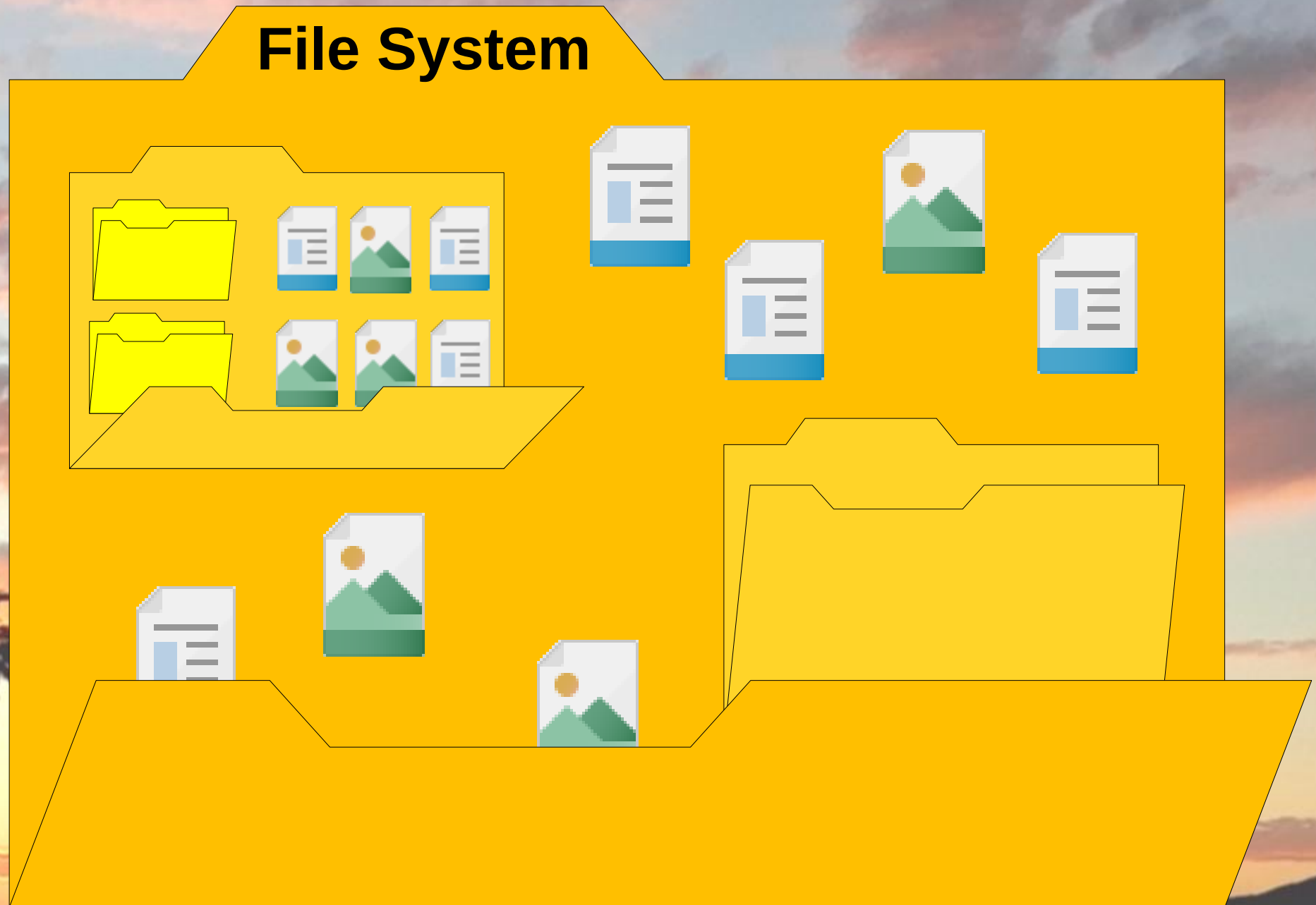
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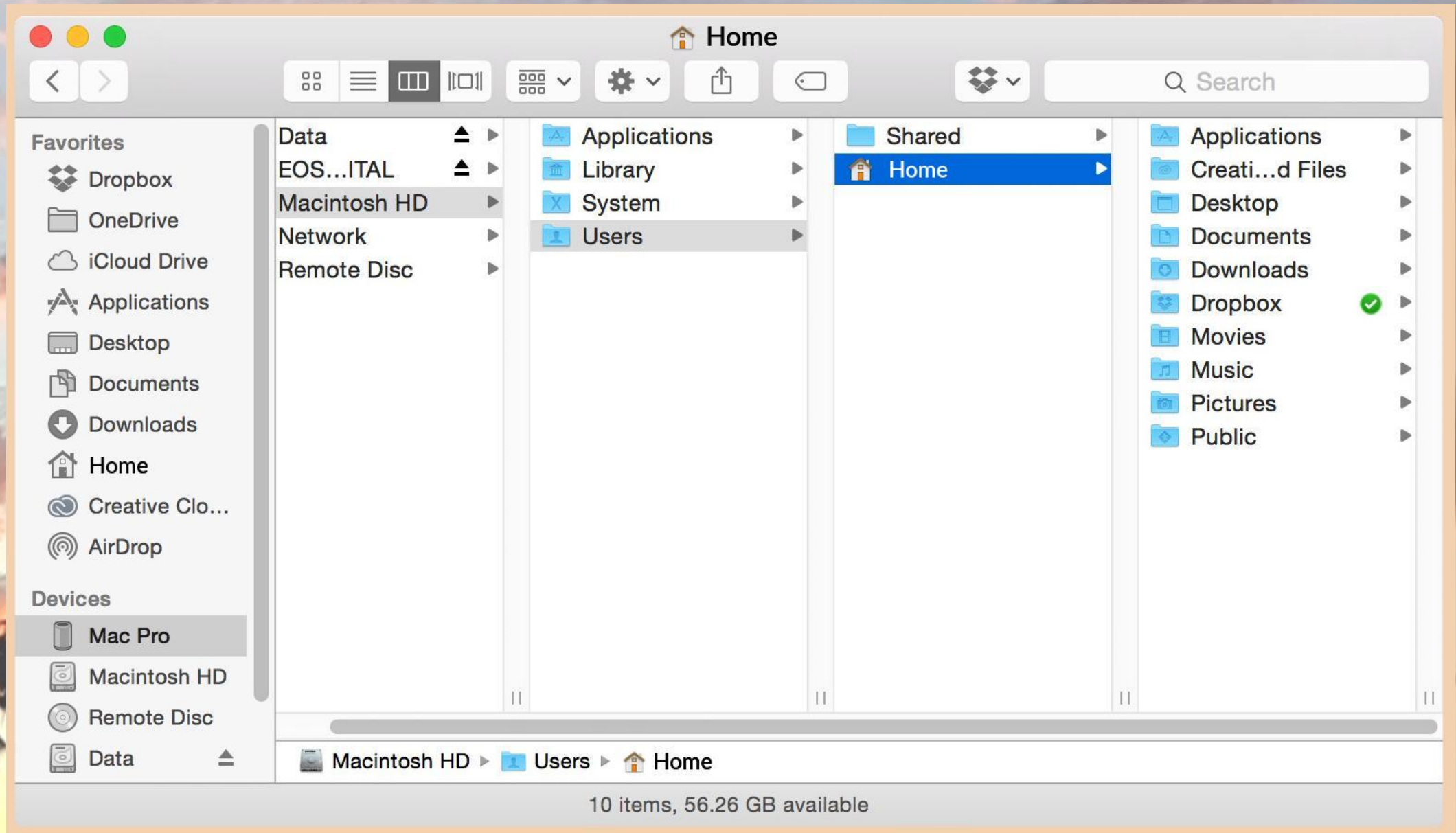
Example File System View: Windows

The screenshot displays the Windows File Explorer interface for the 'Documents' folder. The ribbon at the top includes 'File', 'Home', 'Share', and 'View' tabs. The 'File' tab is active, showing options like 'Pin to Quick access', 'Copy', 'Paste', 'Cut', 'Copy path', 'Paste shortcut', 'Move to', 'Copy to', 'Delete', 'Rename', 'New folder', 'New item', 'Easy access', 'Properties', 'Open', 'Select all', 'Select none', and 'Invert selection'. The address bar shows the path 'This PC > Documents'. The left sidebar shows the 'This PC' view with 'Documents' selected. The main pane displays a list of 15 items in a table format.

Name	Status	Date modified	Type
All_Projects	✓	2/23/2021 8:36 PM	File folder
Custom Office Templates	✓	6/26/2019 10:52 AM	File folder
Extra_Data_Files	↻	2/15/2021 1:38 PM	File folder
HpReg_Backup	✓	6/11/2020 3:40 PM	File folder
Magnolia_Mobile_News	↻	2/25/2021 4:23 PM	File folder
Planning	↻	1/21/2021 10:05 AM	File folder
Raspberry_Pi	↻	1/8/2021 7:48 PM	File folder
Zebra	↻	6/27/2021 9:55 AM	File folder
presentation_2021_07_01a	✓	11/18/2020 12:37 PM	PDF File
presentation_2021_07_01b.TMP	↻	11/18/2020 12:27 PM	TMP File
debian_notes_orig.pdf	✓	1/21/2021 10:25 AM	PDF File
debian_notes_orig.TMP	↻	1/21/2021 10:22 AM	TMP File
debian_notes_second.TMP	↻	1/21/2021 10:21 AM	TMP File
June_Club_Announcement	✓	7/3/2019 5:25 PM	Microsoft Word Document
sales in the park	✓	11/29/2020 11:02 AM	PDF File

15 items

Example File System View: Mac OS



Example File System: Linux (Raspberry Pi)

The screenshot shows a file manager window titled "Documents" with a menu bar (File, Edit, View, Sort, Go, Tools) and a toolbar. The address bar shows the path `/home/pi/Documents`. The left sidebar displays the file system tree, with the "Documents" folder under the "pi" directory highlighted. The main pane shows a list of files with columns for Name, Size, Extension, Modified, and Permissions.

Name	Size	Extension	Modified	Permissions
getting-started-with-pico.pdf	32.9 MiB	pdf	06/28/2021 15:08	rw-r--r--
hardware-design-with-rp2040.pdf	18.8 MiB	pdf	06/28/2021 15:08	rw-r--r--
pico-datasheet.pdf	16.5 MiB	pdf	06/28/2021 15:08	rw-r--r--
raspberry-pi-pico-c-sdk.pdf	2.3 MiB	pdf	06/28/2021 15:08	rw-r--r--
raspberry-pi-pico-python-sdk.pdf	1.7 MiB	pdf	06/28/2021 15:09	rw-r--r--
rp2040-datasheet.pdf	4.9 MiB	pdf	06/28/2021 15:08	rw-r--r--

6 items

Free space: 10.4 GiB (Total: 28.1 GiB)

Logical Description of a File System

Real Hardware only stores Ones and Zeros

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0110010010101010101010010101010100000101001101011110101011010010101000010101010101000101111110101010101010101001011010
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[illegible]

[illegible]

[illegible][illegible]

Each “Partition” can have its own
Operating System (like Windows)

Windows

Or a combination like
Windows and Linux

Windows

Linux

Each Operating System is Independent of the Other

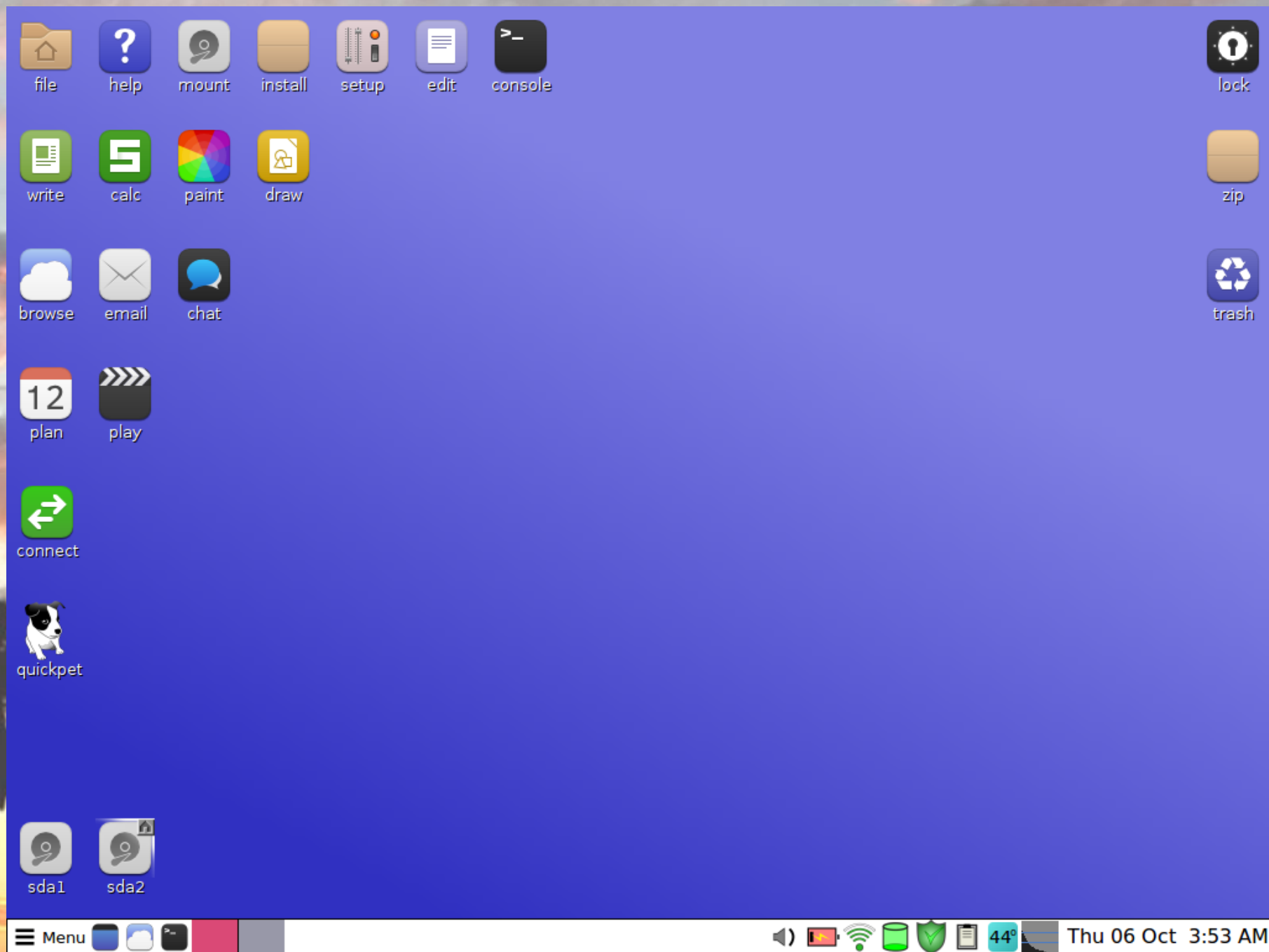
Windows

Linux

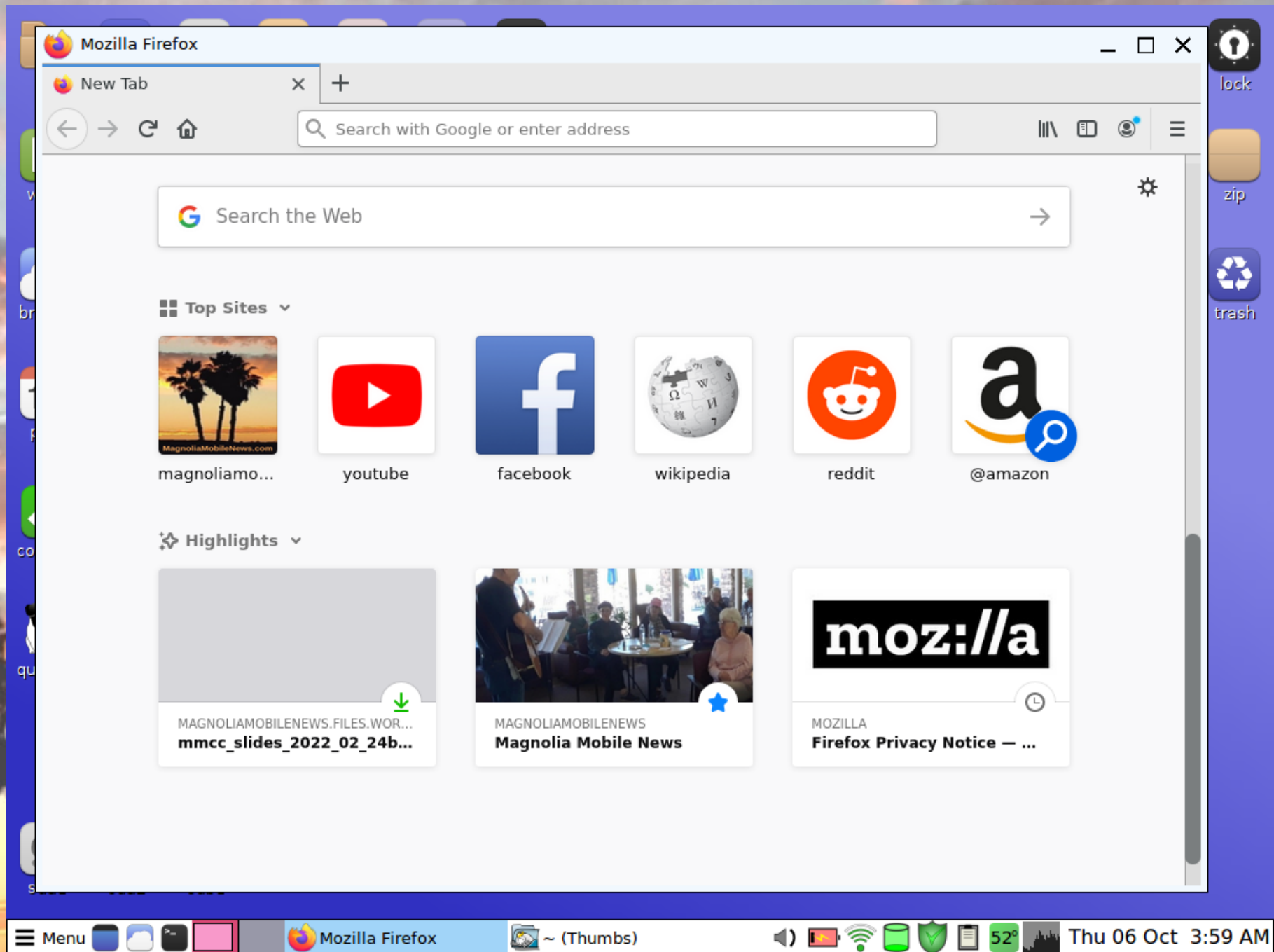
Puppy Linux

**is a version of Linux
ideal for older,
lower performance
computers.**

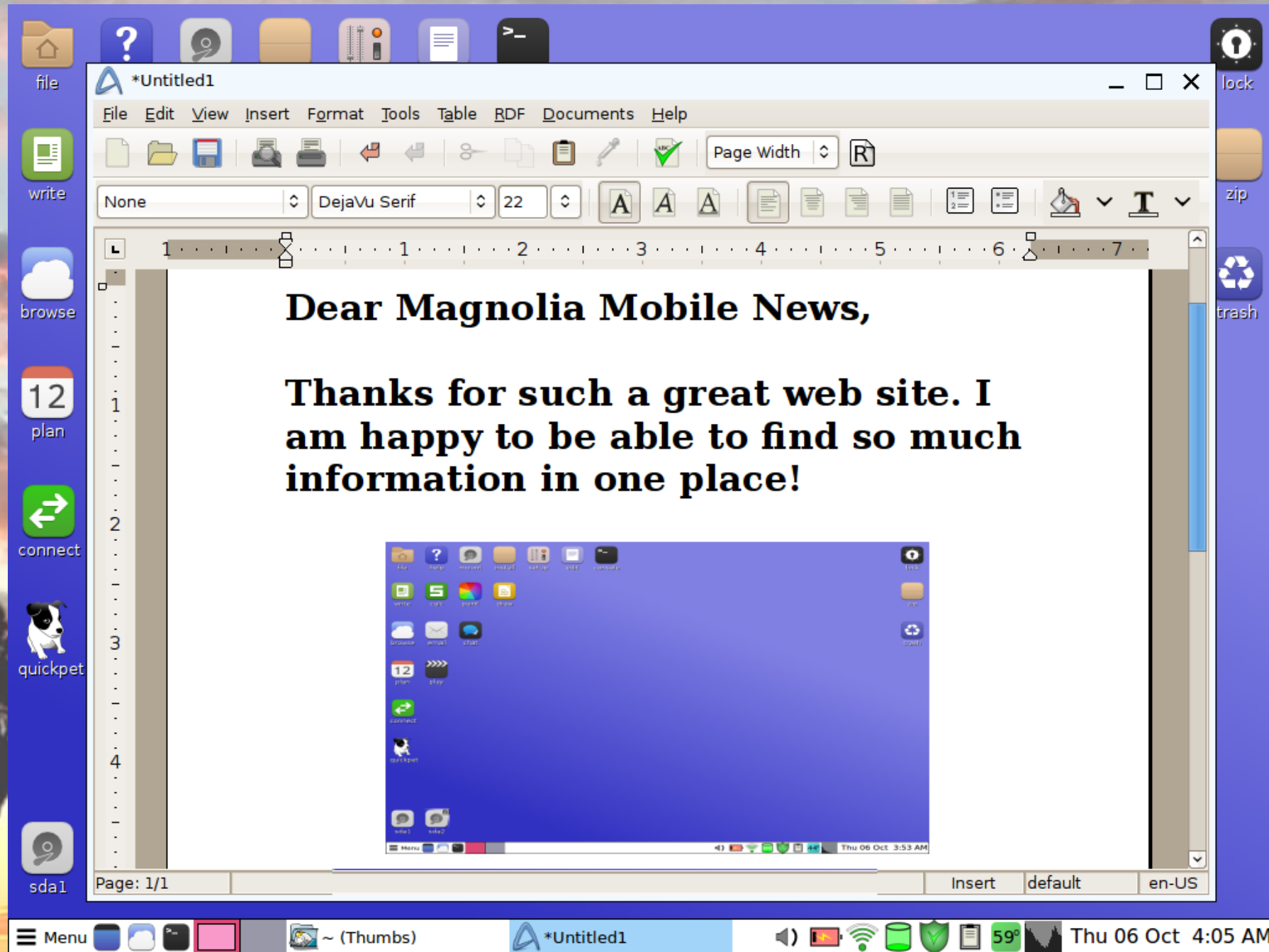
Puppy Linux Desktop



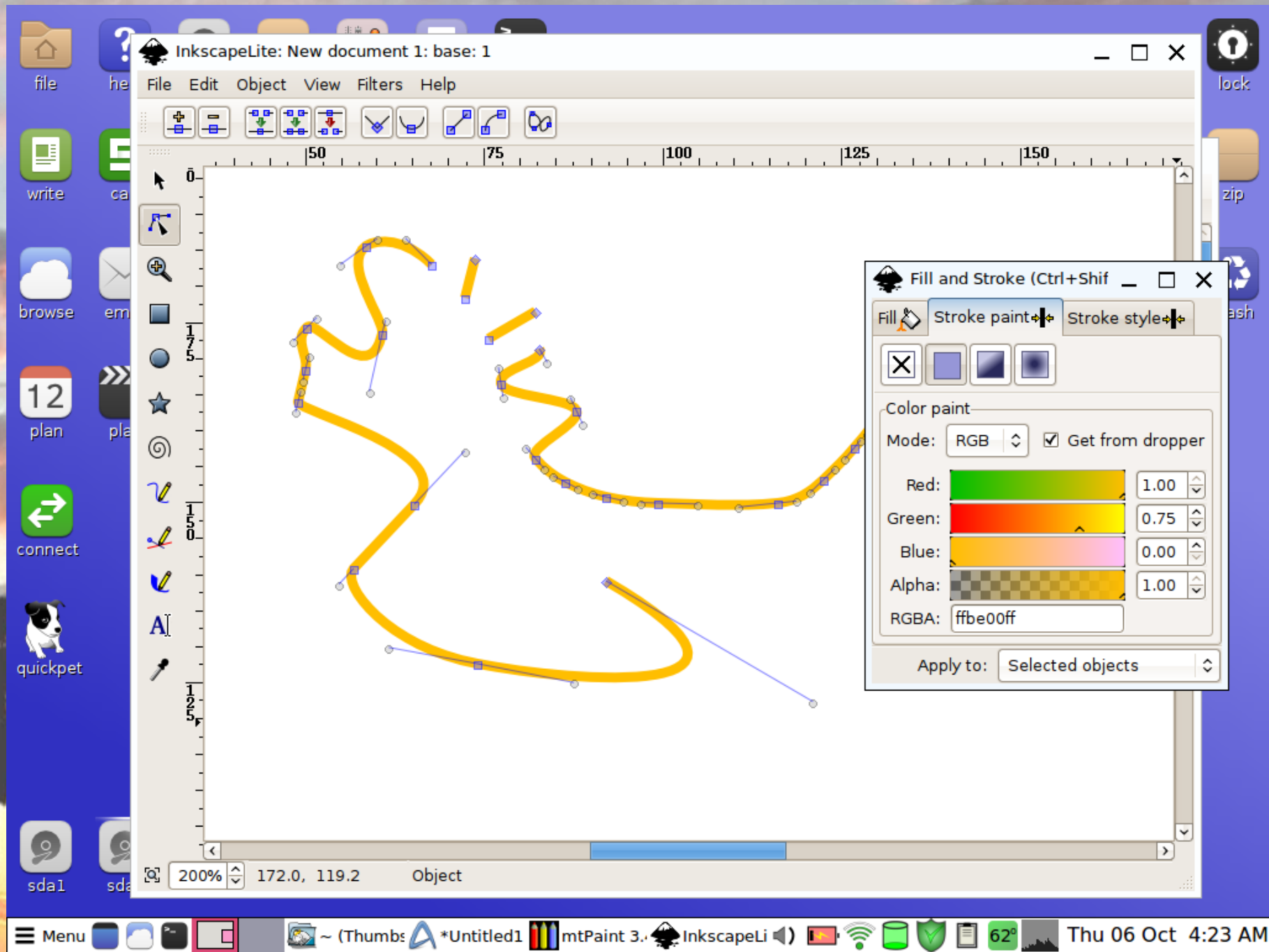
Puppy Linux running FireFox



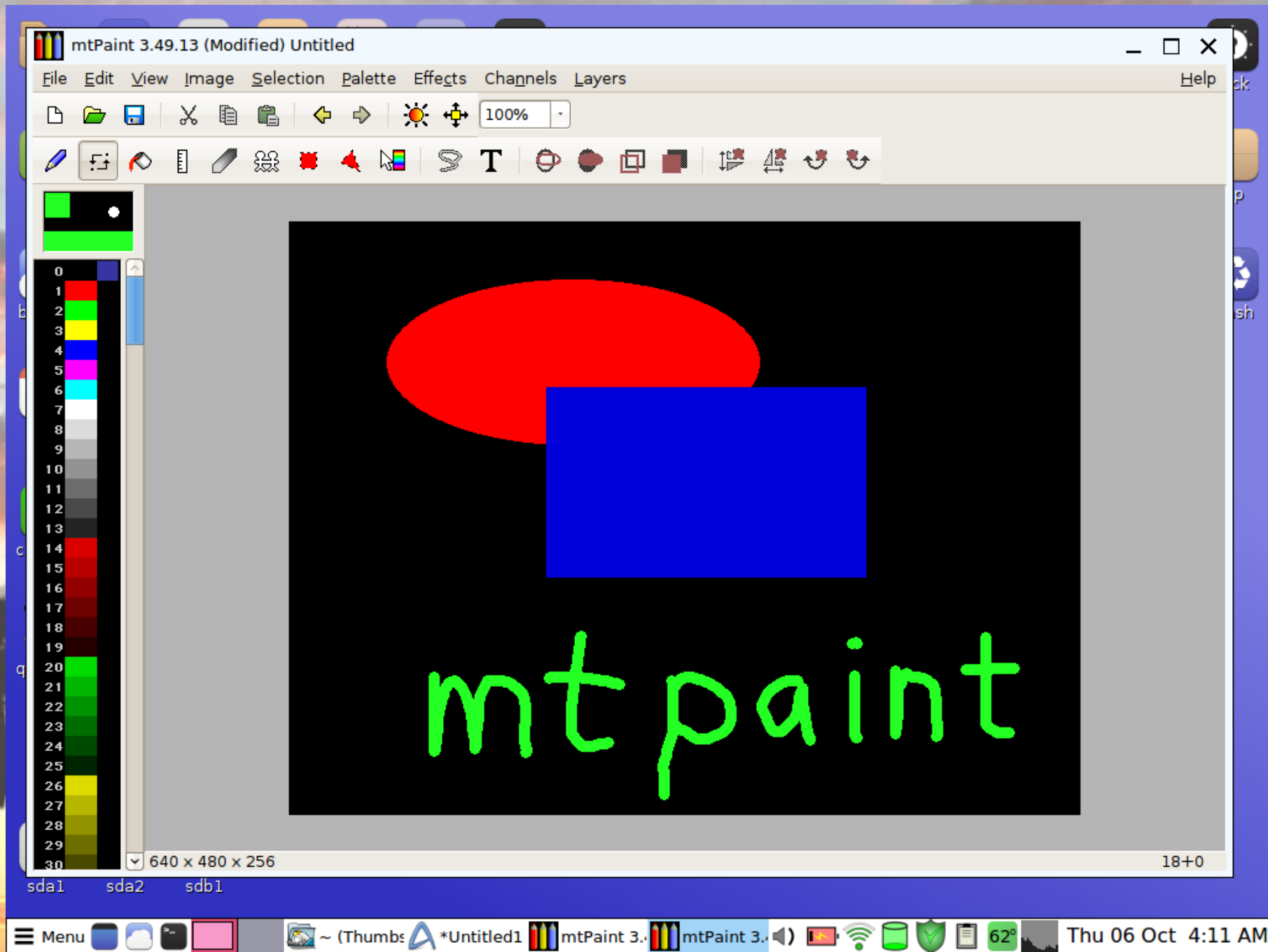
Puppy Linux running Abi Word



Puppy Linux running Inkscape



Puppy Linux running MTPaint

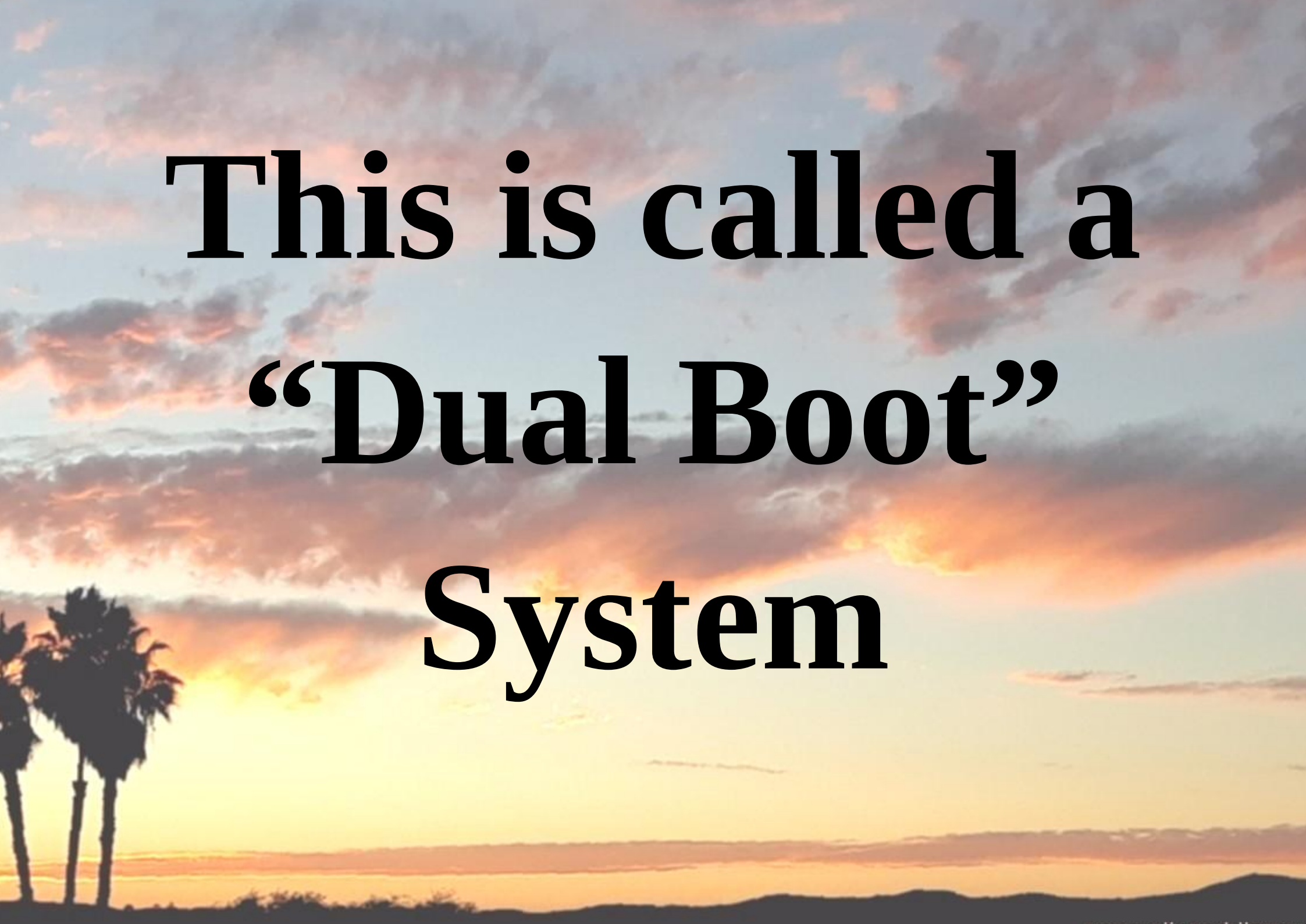


Puppy Linux playing FreeCell



And it still runs Windows XP!





**This is called a
“Dual Boot”
System**

Dual Boot Systems:

- **Have greater flexibility**
- **Are good for learning new Operating Systems**
- **No Commitment**