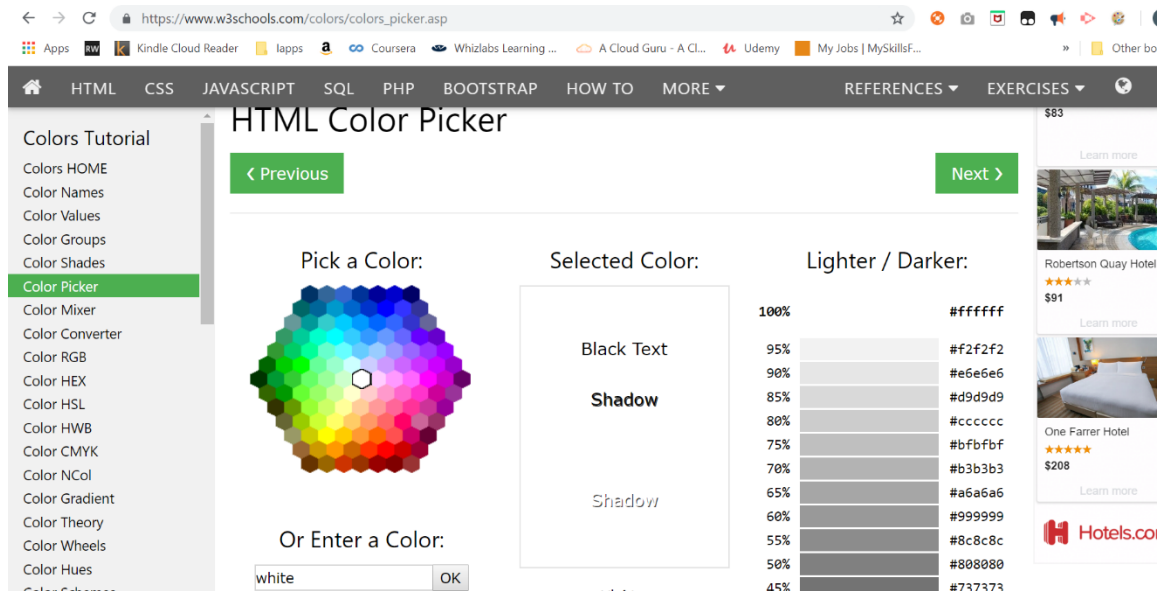


Practical 04 Digital Presentation

Representing colour in RGB

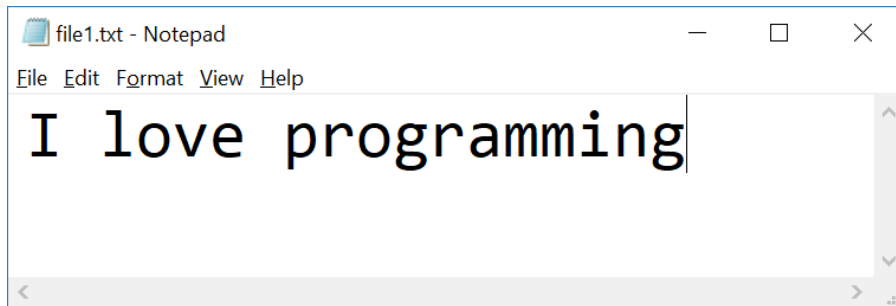
1. Go to web site https://www.w3schools.com/colors/colors_picker.asp



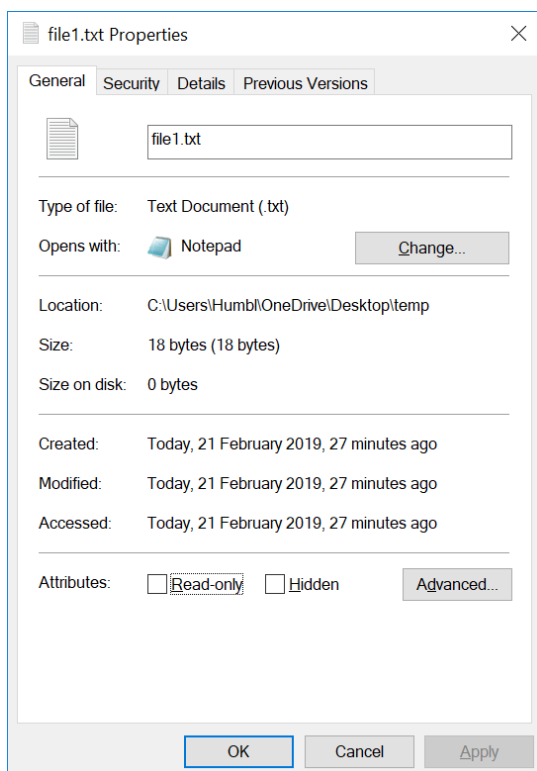
Colour	RGB in decimal	RGB In Hex
Black		
White		
Your favourite colour		

Access the File Header

1. Using notepad, create a text file named "file1.txt"



2. Check the file properties



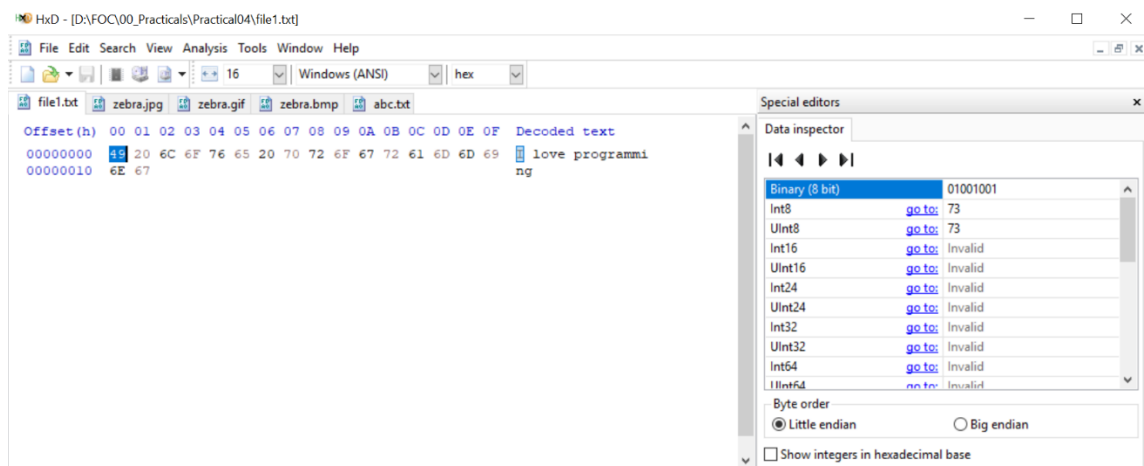
What is the size of the file in bytes?

3. Visit HexEd at <https://hexed.it/>

or download HxD Hex Editor

<https://download.cnet.com/HxD-Hex-Editor/3000-2352-10891068.html?part=dl-HxDHexEdi&subj=uo&tag=button>

4. Open file1.txt using HxD
5. Observe the Hex code



Character	Hex	Binary(8 bit)
I	49	01001001

6. Using HxD to observe how character “o” and space character are represented

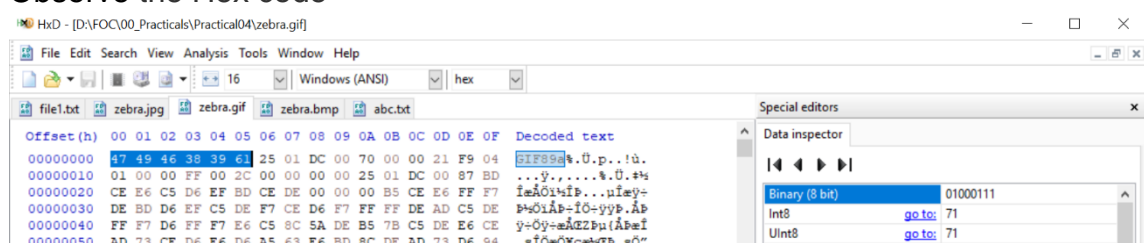
Character	Hex	Binary(8 bit)
o		
space		

7. Download the following image and save it as zebra.jpg, zebra.gif and zebra.bmp



8. Open zebra.gif in HxD

Observe the Hex code



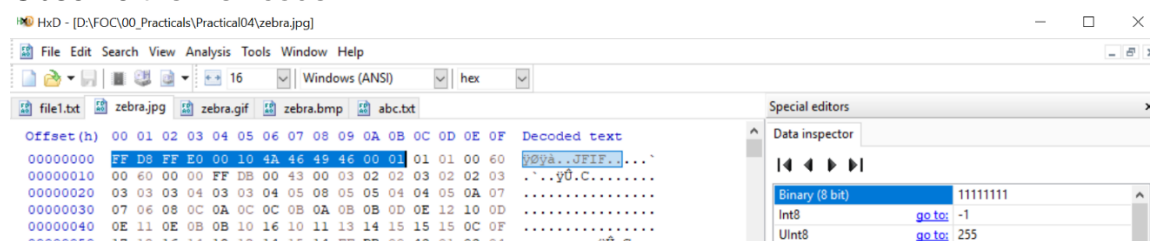
What are the **first 6 bytes** decoded?

offset	00	01	02	03	04	05
Byte						
Character						

9. Visit web site https://en.wikipedia.org/wiki/List_of_file_signatures to find out the meaning of above hex code

10. Open **zebra.jpg** in HxD

Observe the Hex code



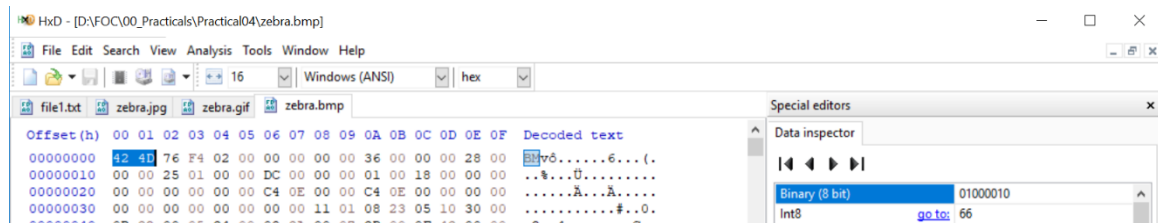
What are the **first 12 bytes**?

offset	00	01	02	03	04	05	06	07	08	09	0A	0B
Byte												
Character												

11. Visit web site https://en.wikipedia.org/wiki/List_of_file_signatures to find out the meaning of above hex code

12. Open **zebra.bmp** in hex editor

Observe the Hex code

What are the **first 2 bytes**?

offset	00	01
Byte		
Character		

13. Visit web site https://en.wikipedia.org/wiki/List_of_file_signatures to find out the meaning of above hex code

14. (optional)

Download the file at

<https://drive.google.com/open?id=1vf0SBkl1LdWQvYmK9yM5AyJ0fHKE6DHR>

How can you view it as an image?



Hint:

- Open the file using HxD
- Visit web site https://en.wikipedia.org/wiki/List_of_file_signatures to find out the meaning of above hex code
- Rename the extension of the file

End of Practical