



Formate grafice pentru Web

Sabin Corneliu Buraga

busaco@infoiasi.ro

<http://www.infoiasi.ro/~busaco>

cuprins

- Preliminarii
- Formate grafice consacrate
 - GIF, JPEG, PNG
- Formate grafice complementare
 - WBMP, SVG

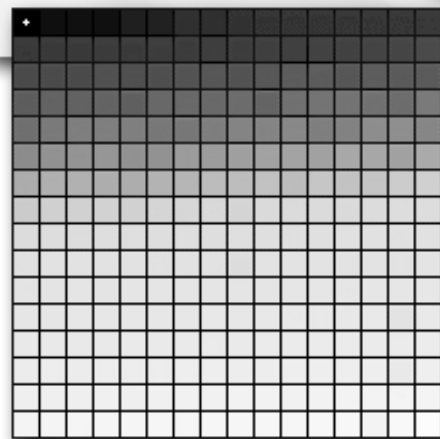
Preliminarii / 1

- Pixel
- Modele cromatice:
 - RGB (Red Green Blue)
 - CYMK (Cyan Yellow Magenta black)
 - HSB (Hue Saturation Brightness)
- Rezolutie (WxH, dpi)
- Adincime de culoare
 - 8biti, 64K, TrueColor
- Raster (bitmap) vs. vectorial

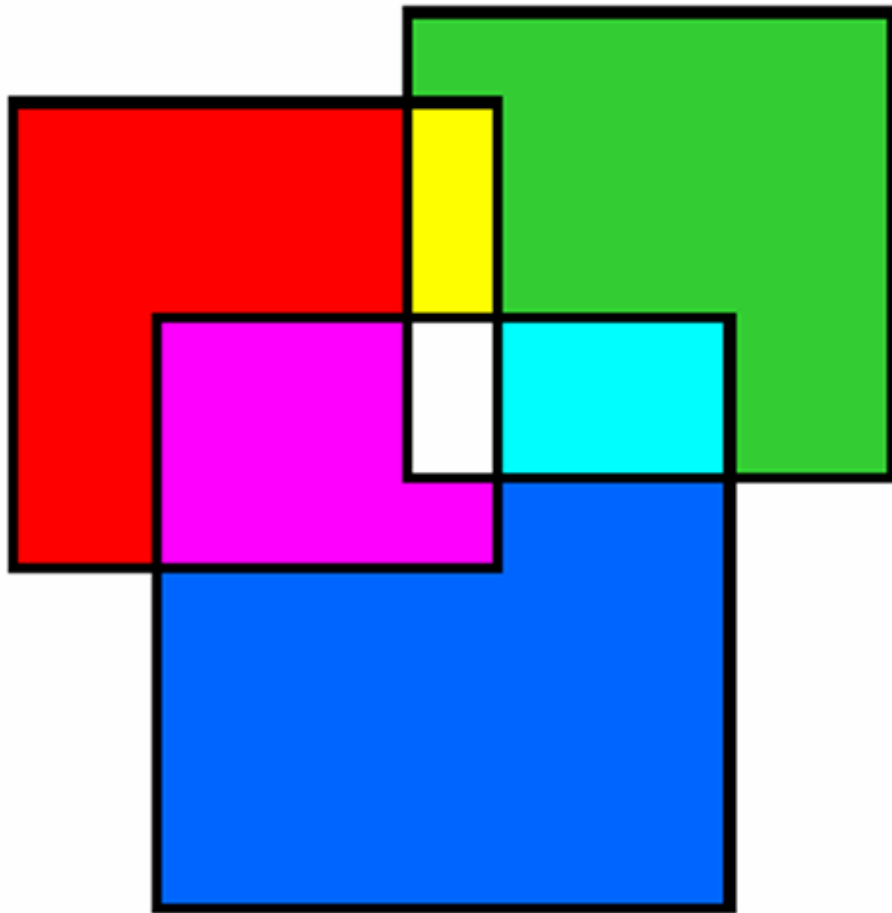
Preliminarii/2

- Compresie
 - Fara pierderi
 - Cu pierderi
- Indexare
 - CLUT
(Color Look-Up Table)
 - 256 culori

Proiectarea siturilor Web



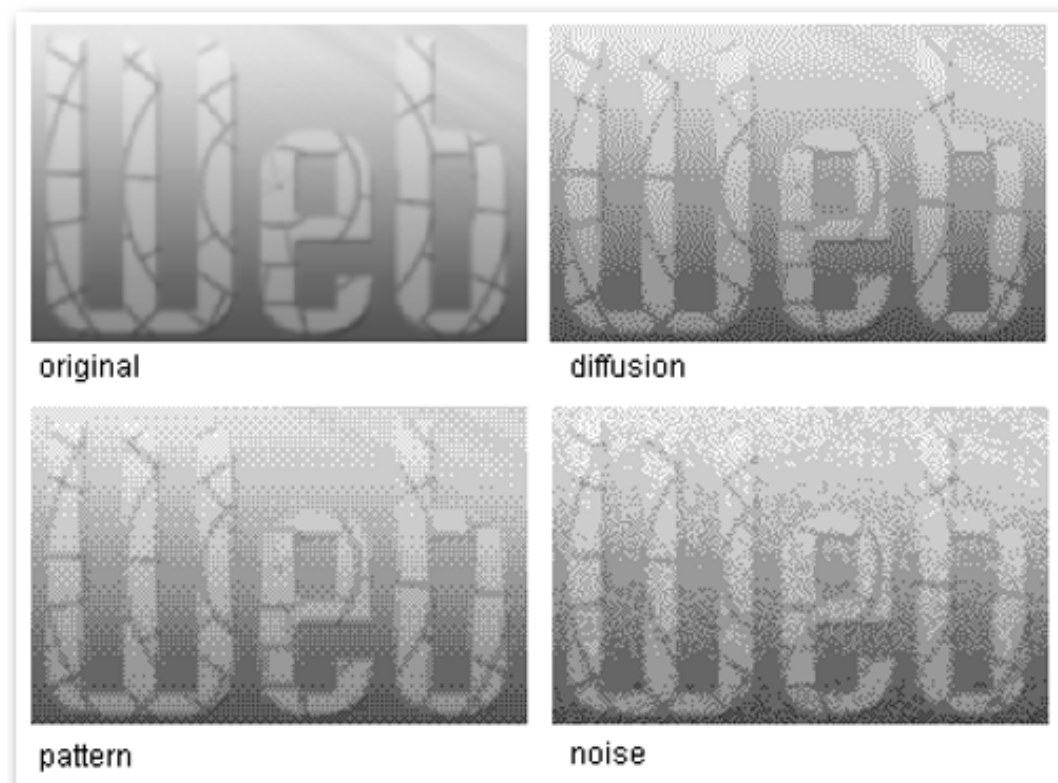
Preliminarii/3



- Obținerea culorilor

GIF

- Graphics Interchange Format (CompuServe)
- GIF87a, GIF89a
- Facilitati
 - Transparenta
 - Intretesere
 - Animatii simple
- Dithering
- Compresie fara pierderi



JPEG

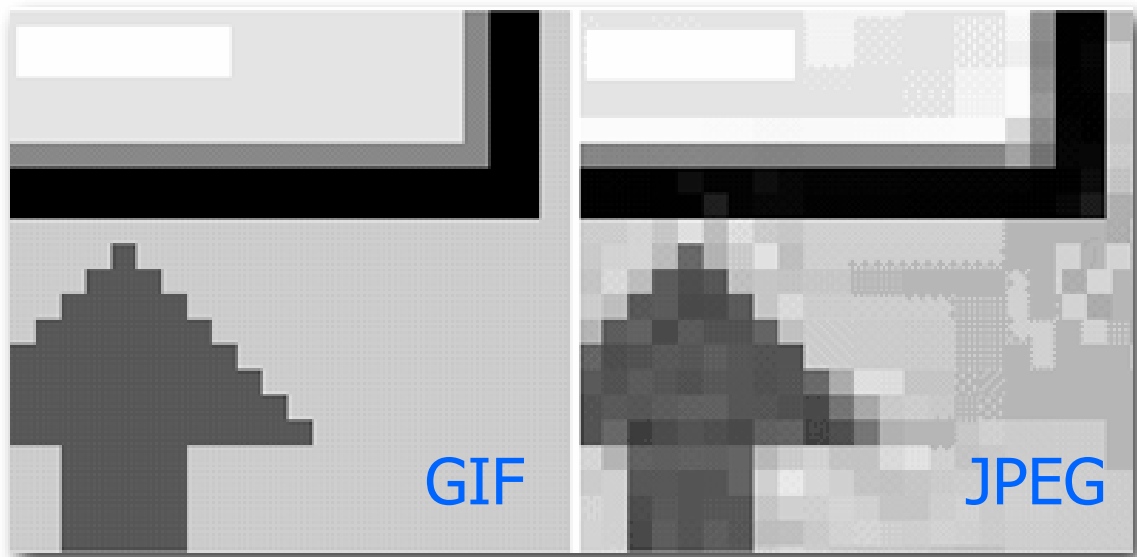
- Joint Photographic Experts Group

- Facilitati

- TrueColor
- Incarcare progresiva

- Compresie cu pierderi

- Grade diferite de compresie \Rightarrow "zgomot"





JPEG
reducere minimă
calitate bună (80%)
dimensiune: 4,5 KB



JPEG
reducere maximă
calitate slabă (10%)
dimensiune: 1,7 KB



GIF
paletă Web (216 culori)
dimensiune: 15 KB

JPEG vs. GIF





PNG

- Portable Network Graphics
- Combina avantajele JPEG si GIF
 - Transparenta (graduala)
 - TrueColor
 - Compresie fara pierderi
- Standard deschis
 - **PNG** is **Not** **GIF**
- Se accepta si stocarea indexata a culorilor

WBMP

- **Wireless Bitmap**
- Adincime de culoare 1-8 biti/pixel
- Dimensiuni reduse (i.e. 96x80)
- Editare/prelucrare cu:
 - WAPDraw
 - WAP Pictus
 - Adobe Photoshop

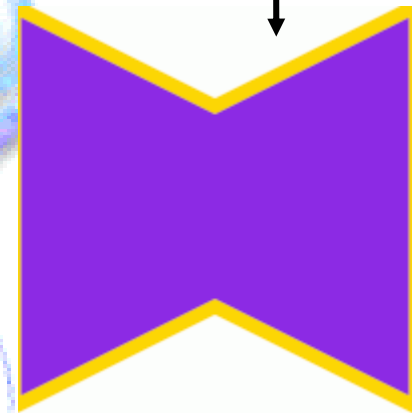
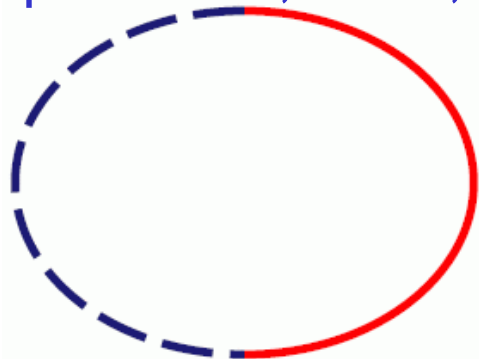
SVG

- Scalable Vector Graphics (W3C)
- Format vectorial, neproprietar
- Bazat pe XML
- Vizualizare cu Adobe SVG Viewer, RealOne Player, Amaya

```
<embed src="fig.svg" name="figura"  
width="750" height="500" type="image/svg+xml"  
pluginspage="http://www.adobe.com/svg/viewer/install/" />
```

SVG

```
<svg width="400" height="200">  
  <polygon fill="blueviolet" stroke="gold" stroke-width="7"  
    points="0,0 100,50 200,0 200,200 100,150 0,200" />
```



```
<g stroke-width="5" fill="none">  
  <path d="M 300 200 a100,75 0 0,1 0,200" stroke="red" />  
  <path d="M 300 200 a100,75 0 0,0 0,200"  
    stroke="midnightblue" stroke-dasharray="30,10" />
```

```
</g>
```

```
</svg>
```

rezumat

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Intrebari?