

## Printing in Black&White

<u>Application:</u> Adobe Illustrator CS <u>Printer:</u> HP Designjet 30/90/130 series <u>Software</u>: HP Driver <u>Operating System:</u> Windows



The simplest approach to creating a black and white image is taking a color image and converting it to grayscale in a photo imaging program such as Photoshop or Illustrator. In addition, although converting an image from color to grayscale is easy, the opposite operation is complex, in this case it is better to have it in color.

- 1. First recommendations:
  - See the <u>Media type functionality & features</u> and choose the most appropriate media.
  - It is essential to have the media type correctly calibrated with this printer and print mode, consult the <u>Calibrate my printer</u> section.
- 2. Open Adobe Illustrator CS.
- 3. Configure the Color Settings, Edit menu > Color Settings...:
  - Make sure the **Advanced Mode** check box is ticked.
  - Working Space > RGB: Adobe RGB (1998).
  - Working Space > CMYK: Euroscale Coated v2 (for Europe), U.S. Web Coated (SWOP) v2 (for US) and Japan Standard v2 (for Japan).
  - Color Management Policies: Preserve the Embedded Profiles.
  - Profile Mismatches: check Ask When Opening and Ask When Pasting.
  - Missing Profiles: check Ask When Opening.
  - Conversion Options > Intent: Perceptual (for RGB images) or Relative Colorimetric (for CMYK images).

Color Settings	Color Settings				
Settings: Custom	OK				
✓ <u>A</u> dvanced Mode	Cancel				
- Working Spaces	Load				
RGB: Adobe RGB (1998)					
CMYK: Euroscale Coated v2	<u>S</u> ave				
Color Management Policies					
RGB: Preserve Embedded Profiles 💌					
CMYK: Preserve Embedded Profiles 💌					
Profile Mismatches: 🗹 Ask When Opening					
Missing Profiles: 🗹 Ask When Opening					
Conversion Options					
Engine: Adobe (ACE)					
Intent: Perceptual					
☑ Use Black Point Compensation					
Description:					

Click OK

- 4. Open the image, **File menu > Open**...:
  - If the document has an embedded color profile that does not match the current working space, select **Use the embedded profile**. Otherwise, select **Assign working space**.

Embedded Profile Mismatch				
	The document's embedded color profile does not match the current RGB working space.			
	Embedded: sRGB IEC6 1966-2.1			
	Working: Adobe RGB (1998)			
How do you want to proceed? Use the embedded profile (instead of the working space) Convert the document's colors to the current working space Discard the embedded profile (don't color manage)				
	Cancel OK			
Missing	Profile	×		
The RGB document "document.tif" does not have an embedded color profile.				
- How do you want to proceed?				
O Leave as is (don't color manage)				
Assign working RGB: Adobe RGB (1998)				
	Assign profile: sRGB IEC61966-2.1	~		
	and then convert document to working RGB			
	OK Can	cel		

- Click OK
- 5. If you place an image, you should embed the image in the document. If it has an embedded profile, it will be converted from the embedded color profile to the document color profile preserving the color appearance. If it doesn't have an embedded color profile, Illustrator will assign the document color profile.
  - File menu > Place...: browse the image and uncheck the Link checkbox. If you are asked How do you want to treat the data?, select Convert.

Paste Profile Mismatch				
	The source data's color profile does not match the destination document's color profile.			
Source: sRGB IEC6 1966-2.1				
Destination: Adobe RGB (1998)				
How do you want to treat the data?				
⊙ <u>C</u> onvert (preserve color appearance).				
O Don't Convert (preserve color numbers).				
	Cancel OK			

• Click OK.

- 6. Make sure you have configured the **Document Setup** appropriately for your document, **File menu > Document Setup...**.
- 7. Driver Settings, **File menu > Print... > Setup...** button:
  - Select Printer...: Select the printer (ex. hp designjet 130).
  - Preferences:
    - Paper/Quality tab:
      - **Paper Size is:** Select the paper size of the media loaded on the printer.
      - **Type is**: Select the media type that is loaded on the printer.
      - Print Quality: Best.

Paper/Quality Finishing Effects Color Services					
Print Task Quick Sets					
<pre>&lt; new configuration &gt;</pre>					
Paper Options					
Size is: 8.5 x 11 in.					
Edit Paper List					
Source is:					
Automatically Select					
Lype is:					
HP Premium Plus Photo and Pro					
Advanced Paper Settings					
OK Cancel					

- **Finishing** tab:
  - **Orientation:** Select the orientation of your document on the paper.
- **Color** tab:
  - Color Options: Automatic.
  - Check Print in Grayscale.

💩 Printing Preferences	? 🗙
Paper/Quality Finishing Effects Color	Services
Print Task Quick Sets	
< new configuration >	Save Dejete
Color Options	
○ <u>M</u> anual	
Print In <u>G</u> rayscale	4=
Advanced Color <u>S</u> ettings	
Color Management	
<u>C</u> olor Matching Method	ColorSmart III
Printer Color Profile	sRGB
<u>R</u> ender Intent	Perceptual
<b>(()</b>	Help
	OK Cancel

- Click **OK** until the Illustrator **Print...** dialog box.
- 8. Adobe Illustrator **Print...** settings:
  - General (left hand menu):
    - **Media > Size:** Defined by Driver.
    - **Options:** Select the scaling option you need.
  - Color Management (left hand menu):
    - **Print Space > Profile**: Dot Gain 30%.
    - **Print Space > Intent**: Perceptual.

Print		
Print Prese Printe PPI	er: HP d	om 💌 esignjet 130 💌
Setup Marks & Bleed Output Graphics	lor Manaç Source Sj Adobe R(	
Havancea	Print Spai Pro <u>f</u> ile: <u>I</u> ntent:	Ce Dot Gain 30%
in ven t		
Save Preset Setup		Print Cancel Done

• Click **Print.** 

## For more information on HP Designjet products

www.hp.com/go/designjet

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