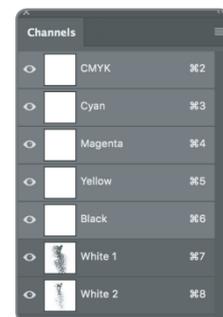
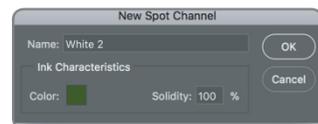
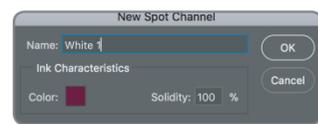
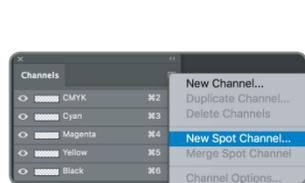


Application 4

Two Layer White Dry Ink Image by Photoshop Print on Color Media



Artwork Production

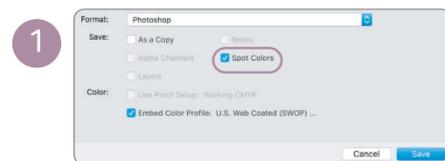


Add two New Spot Channel to the Photoshop Channel, and name them as "White 1" and "White 2"

Create different shades and overlapping position in the two New Spot Channel

The invert image shown in Photoshop will be printed with the correct effect as per design

Tips



Before saving to "psd" format for export to Indesign or Illustrator, remember to check "Spot Colors"



It will automatically add "White 1" and "White 2" to the Swatches Spot Color list after import to Indesign or Illustrator

About

Designs Featuring speciality colors with the shine of eye-catching gold, silver, metallic and white.

Iridesse™ Production Press - a 6-color digital press - realises these printing expressions on demand, which have been done mainly on offset.

High productivity, outstanding image quality, a wide media latitude, and the reliability of the production flagship model featuring unprecedented power of expression make a solid difference in your business.

This tip book provides a variety of solutions to the unique designs on Iridesse™ from the designers' point of view, enabling designers to improve the visual effects of their works on printing.

Content

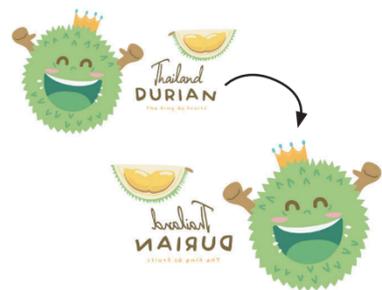
Iridesse™ 6-Color Production Press	02 - 03
Ink Density concept of Iridesse	04 - 07
4 Special Dry Ink Creation	08 - 11
Knock Out and Overprint on Special Dry Ink	12 - 15
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Two Layers One Pass White	29 - 31
Applications	32 - 36

Application 2

Process Color + White Special Dry Ink Overlay Print on Transparency Media



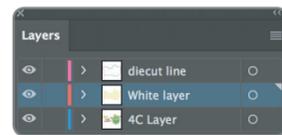
Artwork Production



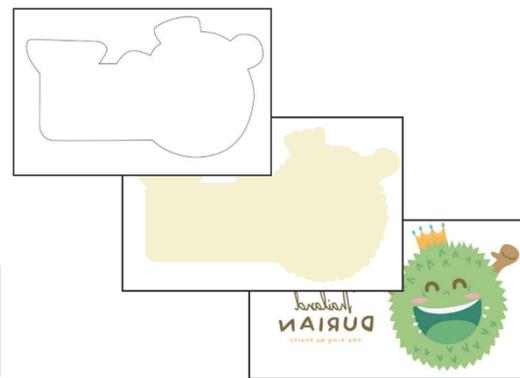
The original picture must be changed to mirror effect



Set White Spot Color in Swatches

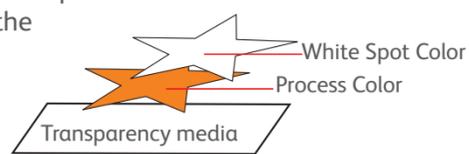


Set three layers separately

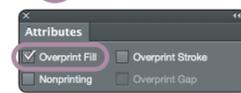


White Spot Color for the Overprint feature

Tips 1 For transparency material, the white color toner is set as the final overlay and the process color is placed in the middle of the transparency media. The original image must be set as mirror effect.

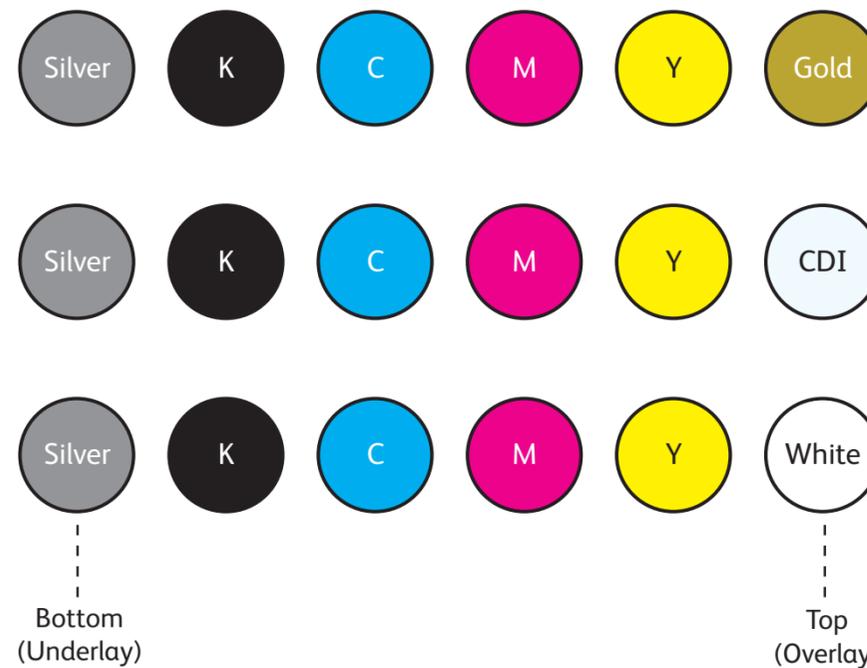


2 Use White Spot Color for the Overprint function



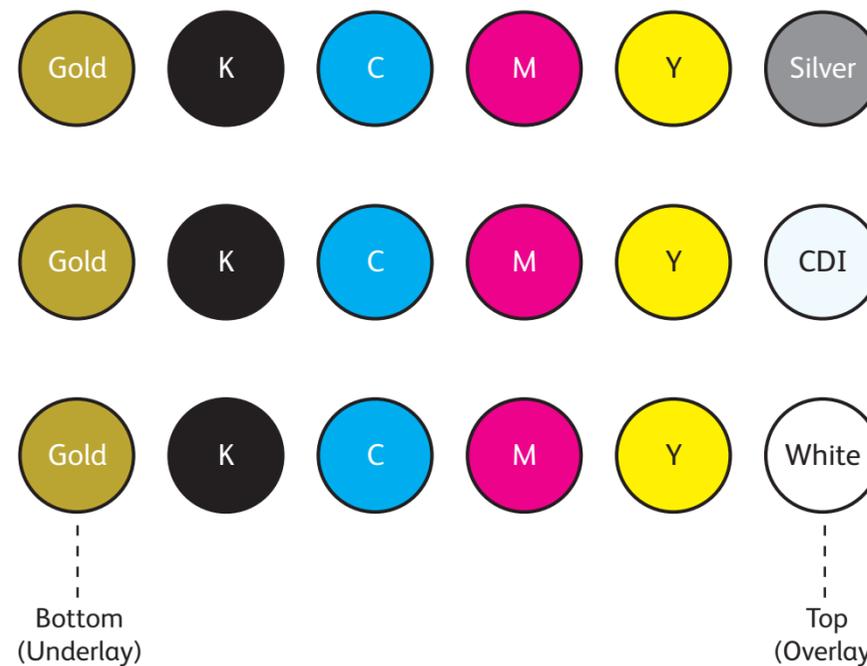
Iridesse™ 6-Color Production Press

Silver Basic



White toner on the top for transparency film mirror image printing

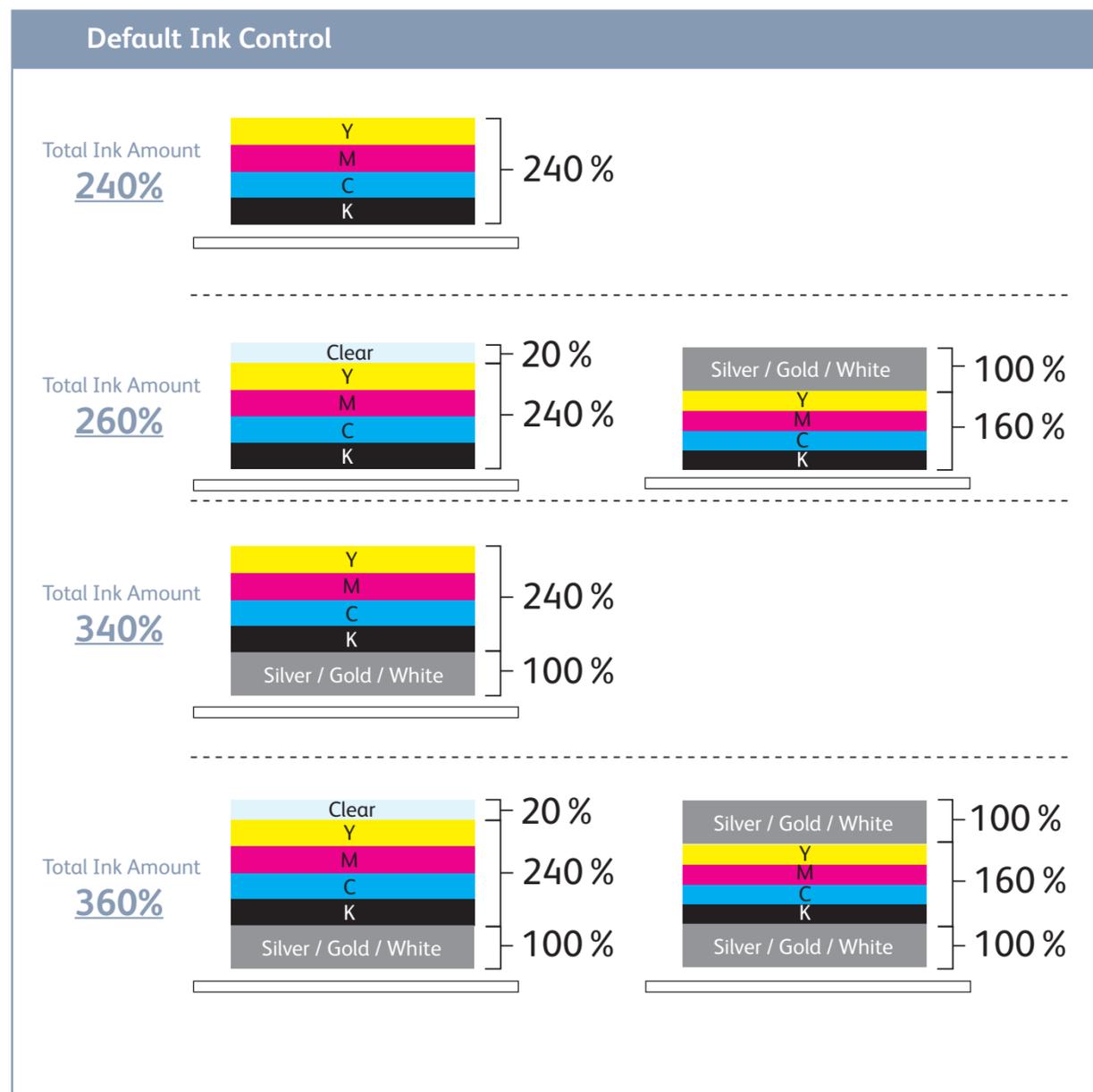
Gold Basic



White toner on the top for transparency film mirror image printing

Ink density concept of Iridesse™

When the designer understands Iridesse™ ink density concept, it is easier to arrange the distribution of colors on the design work, so that the Overprint density can be predicted before printing, and the effect of Special Dry Ink is even more prominent.



Application 1

White Special Dry Ink Underlay + Process Color Print on Color Media



Artwork Production

Set White Spot Color in Swatches

Set two layers separately, one layer for Process Color, the other for White Spot Color

Fill in the respective Process Color and White Spot Color with images inside the two layers, and use White Spot Color for the Overprint feature

Tips

- 1 Add White Spot Color in Adobe Illustrator
- 2 Use white Spot Color for the Overprint function
- 3 Available in Combines function if dealing with the same white spot color

Ink density concept of Iridesse™

Exercise

Gloss Enhancement (Clear Dry Ink only)

Total Ink Amount <u>260%</u>	
Total Ink Amount <u>360%</u>	

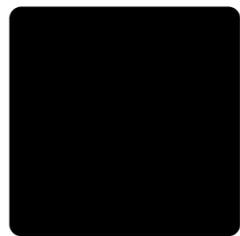
Embossed Stock (Clear Dry Ink only)

Total Ink Amount <u>340%</u>	
Total Ink Amount <u>440%</u>	

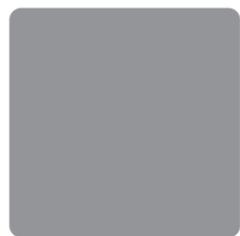
*** Tips: (White Color Dry Ink only)**

<p>Arrangement for color papers</p>	<p>Arrangement for mirror image print on the bottom of transparency media</p>	<p>Arrangement to make white more visible or two layers (* Not allowed to include process color within artwork)</p>
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Ink density concept of Iridesse™



100 % CMYK

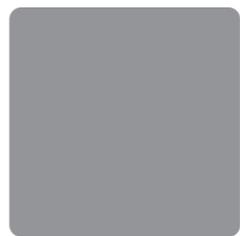


100 % Silver Underlay

+

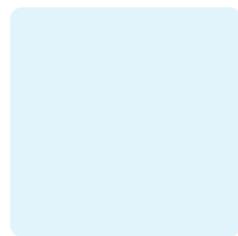


100 % CMYK Overprint



100 % Silver Underlay

+

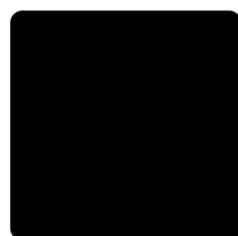


100 % Clear Overprint



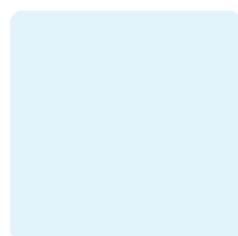
100 % Silver Underlay

+



100 % CMYK Overprint

+



100 % Clear Overprint
Apply Gloss Enhancement



100 % Silver Underlay

+



100 % CMYK Overprint

+



100 % Clear Overprint

Output	
Special (Top)	: 0 %
Cyan	: 35 %
Magenta	: 45 %
Yellow	: 60 %
Black	: 100 %
Special (Bottom)	: 0 %

Output	
Special (Top)	: 0 %
Cyan	: 57 %
Magenta	: 57 %
Yellow	: 57 %
Black	: 70 %
Special (Bottom)	: 100 %

Output	
Special (Top)	: 100 %
Cyan	: 0 %
Magenta	: 0 %
Yellow	: 0 %
Black	: 0 %
Special (Bottom)	: 100 %

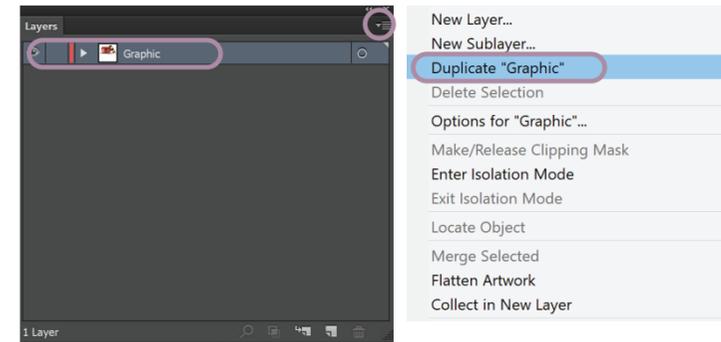
Output	
Special (Top)	: 60 %
Cyan	: 43 %
Magenta	: 43 %
Yellow	: 43 %
Black	: 70 %
Special (Bottom)	: 100 %

Output	
Special (Top)	: 20 %
Cyan	: 57 %
Magenta	: 57 %
Yellow	: 57 %
Black	: 70 %
Special (Bottom)	: 100 %

Two Layers One Pass White Ink

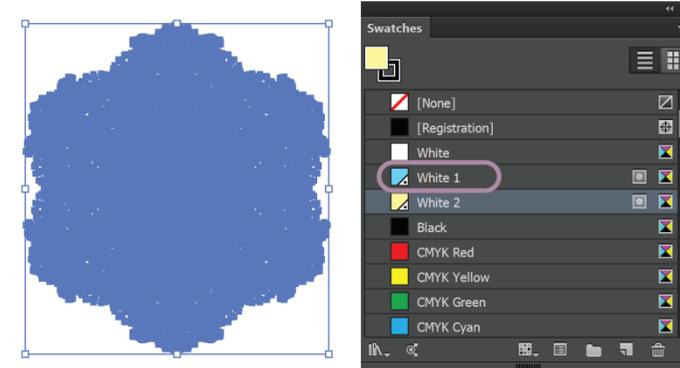
iv. Duplicate layer, [Window] > [Layer].

Choose image layer, click pulldown menu and choose [Duplicate "image name"]



v. Apply "White 1" to bottom layer (original layer)

Check "Graphic" and click [White 1] Swatch



v. Apply "White 2" to top layer (Duplicate layer)

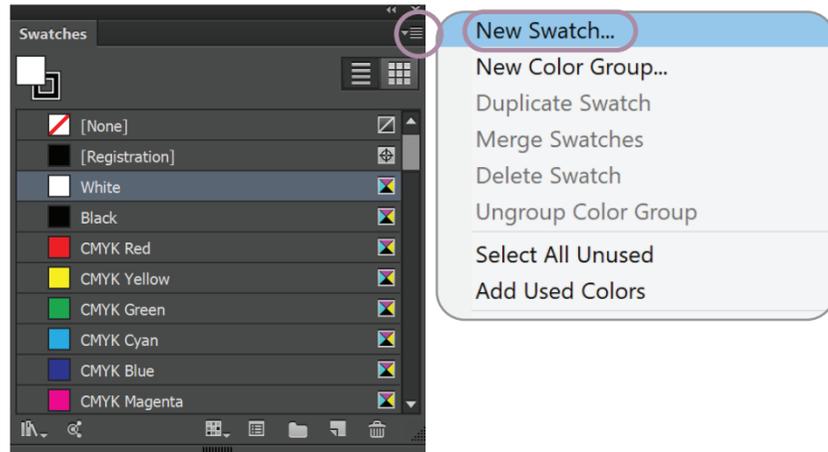
Check "Graphic" and click [White 2] Swatch

vi. Check [Overprint Fill] on "Duplicate image" to ensure the bottom image is panted out.



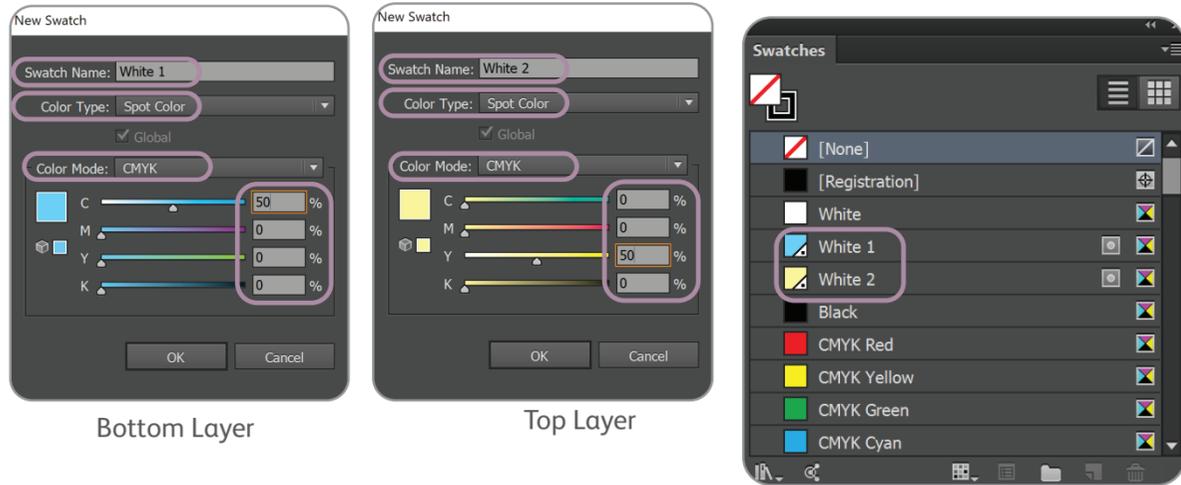
Two Layers One Pass White Ink

i. Create White Spot Color
 Choose [Window] > [Swatches] and choose [New Swatch]



Note: By default, Adobe Illustrator has a CMYK White Swatch in the library. This cannot be used for Iridesse™ as it is not a Spot Color.

ii. At "Swatch Name", input [White 1], "Color Type" choose [Spot Color], "Color Mode" choose [CMYK] and provide a CMYK value. "White 1" is for bottom layer.
 iii. Repeat the same process with "Swatch Name" [White 2] for top layer.



Ink density concept of Iridesse™

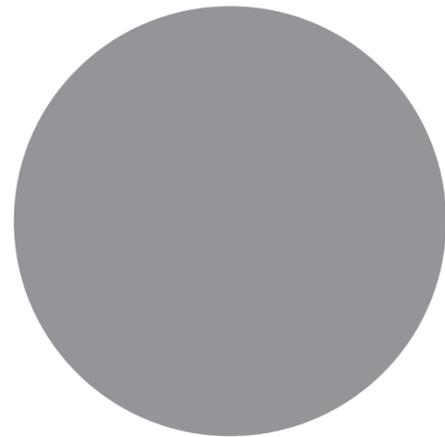


100 % Silver Underlay	+	100 % Gold Overprint		Output Special (Top) : 100 % Cyan : 0 % Magenta : 0 % Yellow : 0 % Black : 0 % Special (Bottom) : 100 %	
100 % Silver Underlay	+	100 % CMYK Overprint	+	100 % Gold Overprint	Output Special (Top) : 33 % Cyan : 57 % Magenta : 57 % Yellow : 57 % Black : 57 % Special (Bottom) : 100 %
100 % Silver Underlay	+	100 % K Overprint	+	100 % Gold Overprint	Output Special (Top) : 100 % Cyan : 0 % Magenta : 0 % Yellow : 0 % Black : 0 % Special (Bottom) : 100 %
100 % Silver Underlay	+	100 % CMYK Overprint	+	100 % Gold No Overprint	Output Special (Top) : 100 % Cyan : 0 % Magenta : 0 % Yellow : 0 % Black : 0 % Special (Bottom) : 0 %

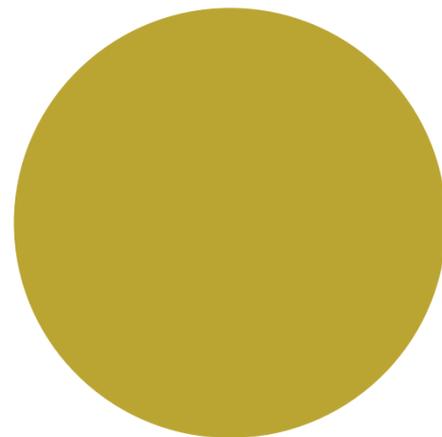
Note: CMYK Simulation use: ISO Coated v2_GlossCoated 120

4 Special Dry Ink Creation

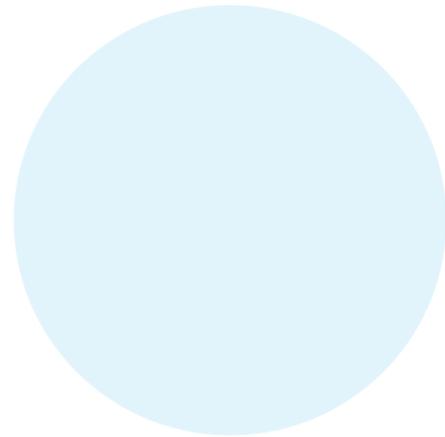
Creation of Iridesse™ Special Dry Ink is similar to spot color. Designer only needs to create the “Swatch Name” saved in Iridesse™ Spot Library. Commonly used name: “Silver”, “Gold”, “Clear”, “White”. (Case sensitive)



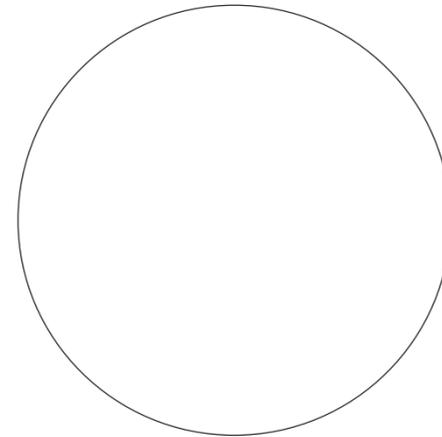
Silver (100%)



Gold (100%)



Clear* (100%)

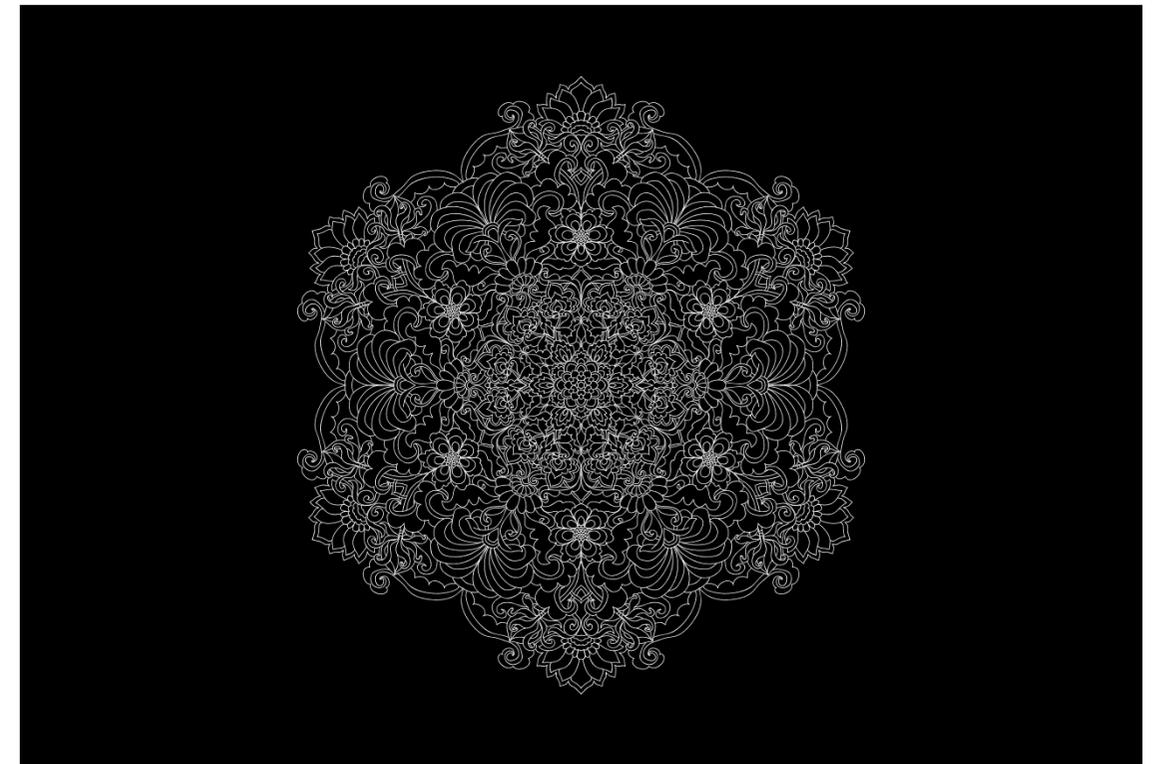


White* (100%)

**For illustration purpose. Color not taken from Iridesse™ Special Dry Ink*

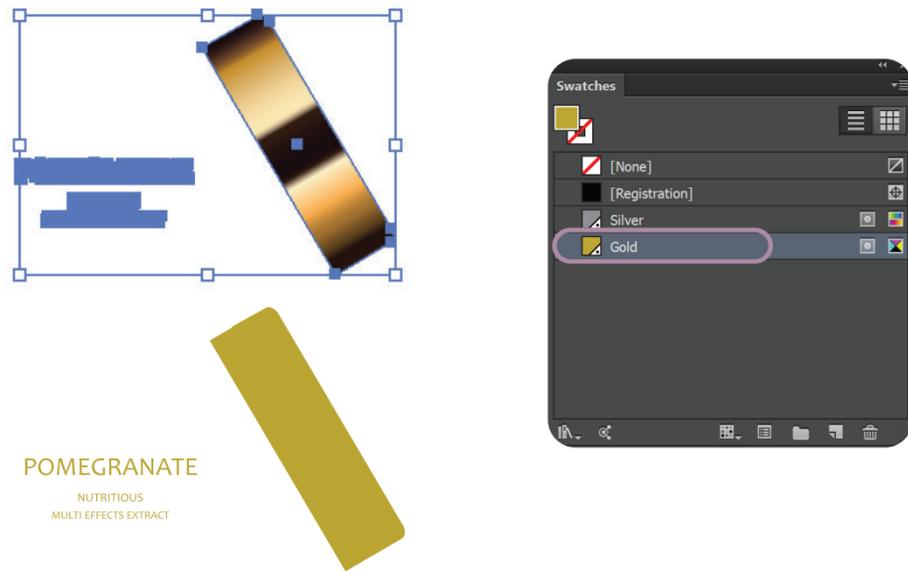
Two Layers One Pass White Ink

2 layers of white ink can be easily applied at one pass to produce an opaque white output. This is especially useful when printing on black media to ensure highest productivity and superb quality.

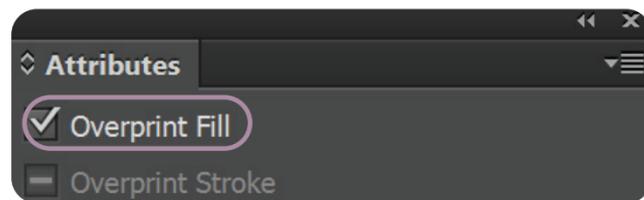


6 Color Creation

viii. Check "Graphic" and click [Gold] Swatch



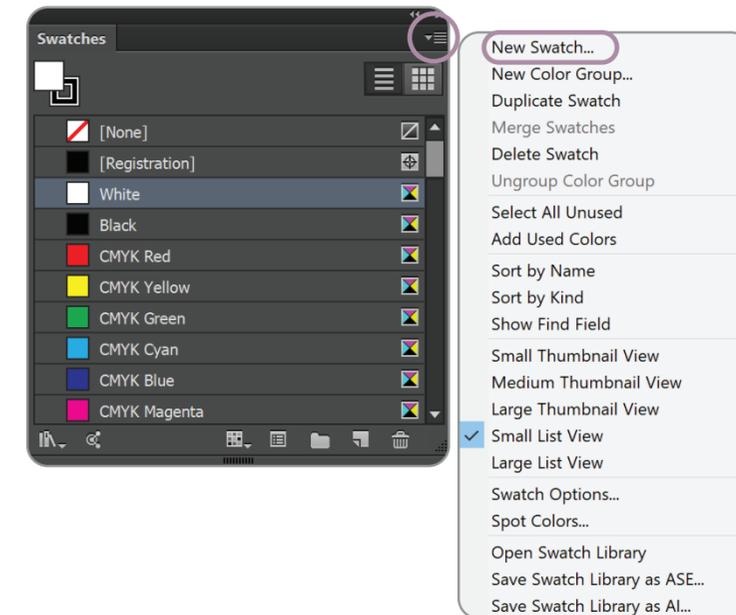
v. Check [Overprint Fill] on "Duplicate Graphic" to ensure the back image is printed out.



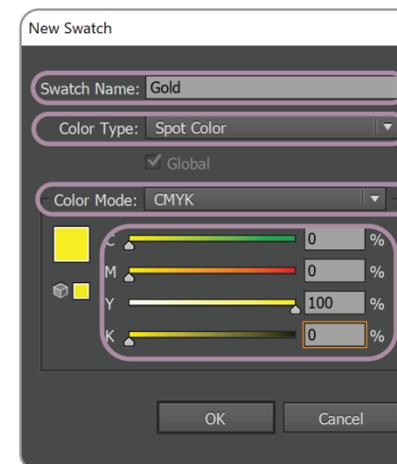
4 Special Dry Ink Creation

1. Adding New Swatches (Adobe Illustrator)

- i. Open Adobe Illustrator. Choose [Window] > [Swatches]
- ii. At Swatch palette, select [Open Swatch Library] > [New Swatch].

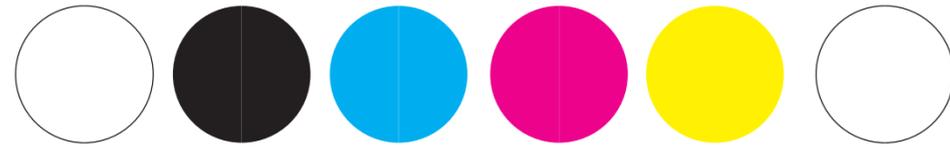


iii. At "Swatch Name", input name "Silver / Gold / Clear / White" (The input name must match the original setting on the printing press). Choose [Spot Color] at "Color Type". Under "Color Mode", choose [CMYK] and assign any value.



This value will allow you to identify the Specially Dry Ink applications easily

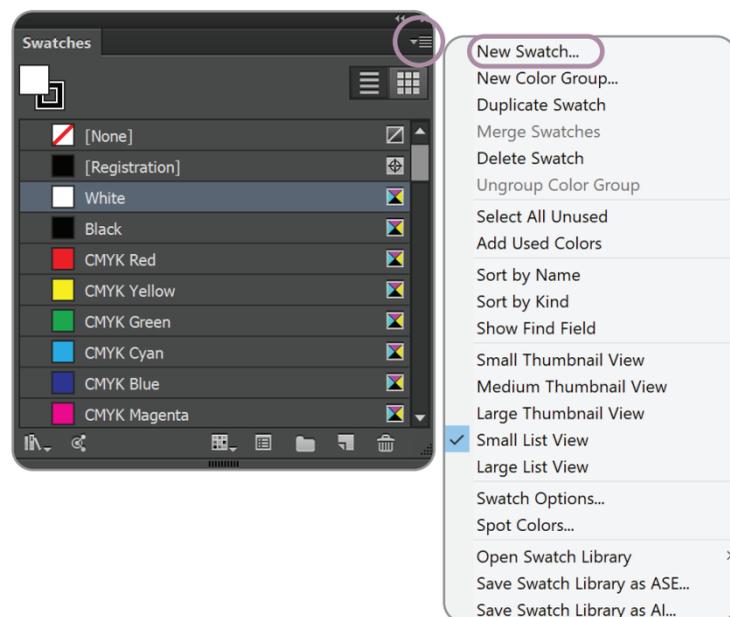
4 Special Dry Ink Creation



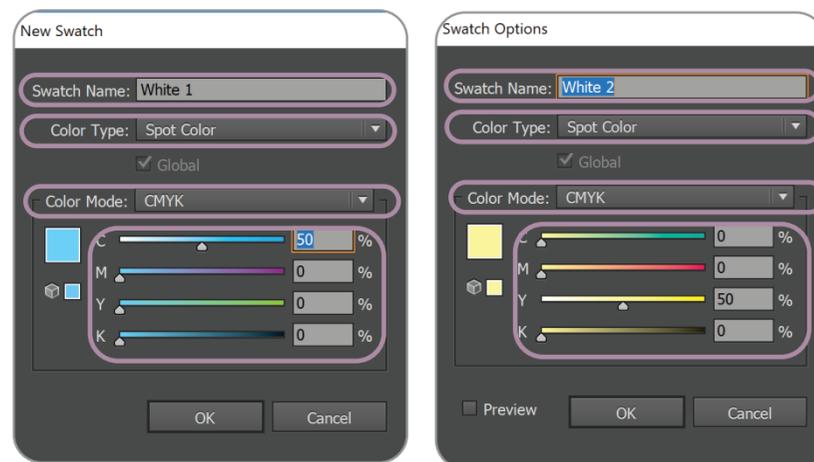
2 Layers white setting for more opaque white effect.

2. Adding 2 White Swatches (Adobe Illustrator)

- Open Adobe Illustrator. Choose [Window] > [Swatches]
- At Swatch palette, select [Open Swatch Library] > [New Swatch].



- At "Swatch Name", input name [White 1] and [White 2]". Choose [Spot Color] at "Color Type". Under "Color Mode", choose [CMYK] and assign any value.



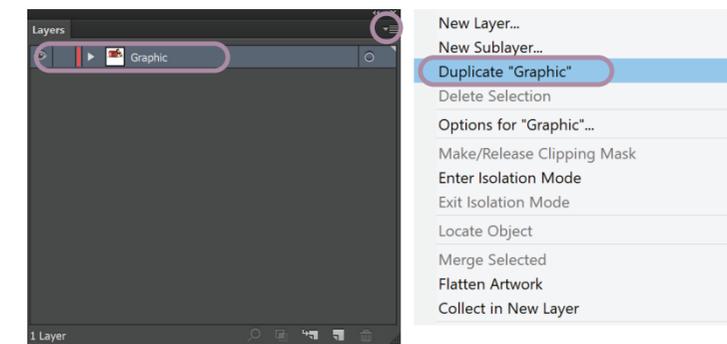
Note: Ensure the CMYK value are different for both as this allow designer to identify the different white layers

6 Color Creation

- Applying Gold on "Graphic"



- Duplicate "Graphic" layer, [Window] > [Layer]. Choose "Graphic", click pulldown menu and choose [Duplicate "Graphic"]

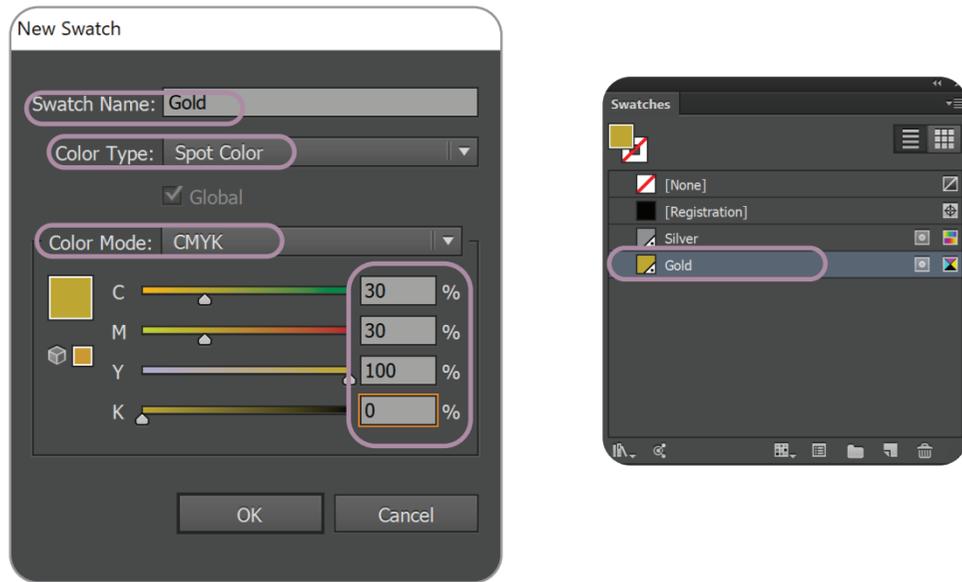


- Choose the area that requires "Gold" on the "Top Duplicate Graphic". Go to [Window] > [Pathfinder] and click [Unite]

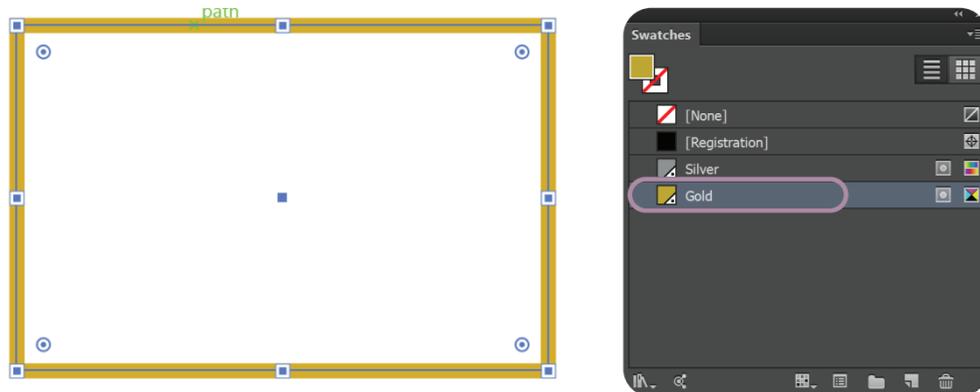


6 Color Creation

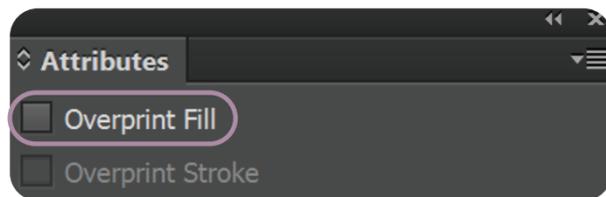
iii. At "Swatch Name", input [Gold], "Color Type" choose [Spot Color], "Color Mode" choose [CMYK] and provide a CMYK value



iv. Check "Frame" and click [Gold] Swatch



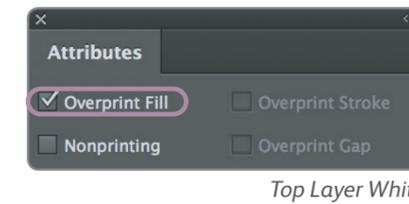
v. Ensure to uncheck [Overprint Fill] for solid frame



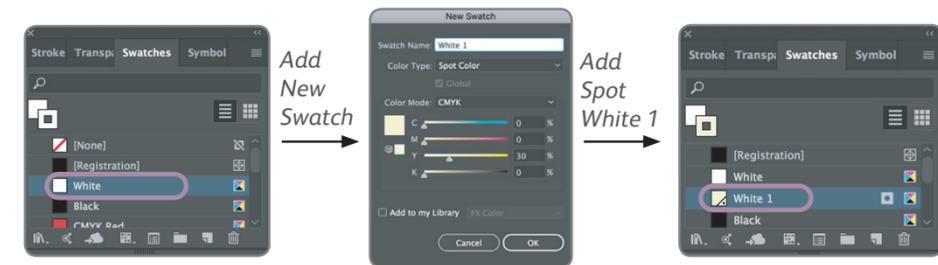
4 Special Dry Ink Creation

Note:

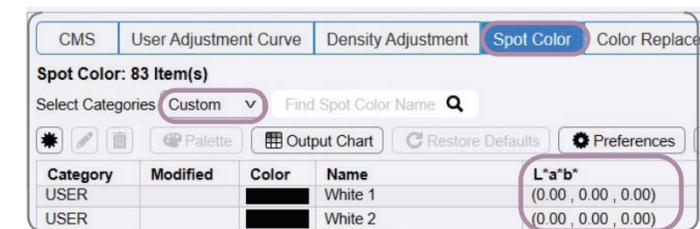
i. Both "White 1" and "White 2" are spot color, hence the top layer "White" has to be over print. (Please refer to Knock out and Overprint on Special Dry Ink)



ii. Adobe Illustrator's Swatches has White Color listed, Since this list is not a Spot Color, the designer must add a separate White Color as shown below.

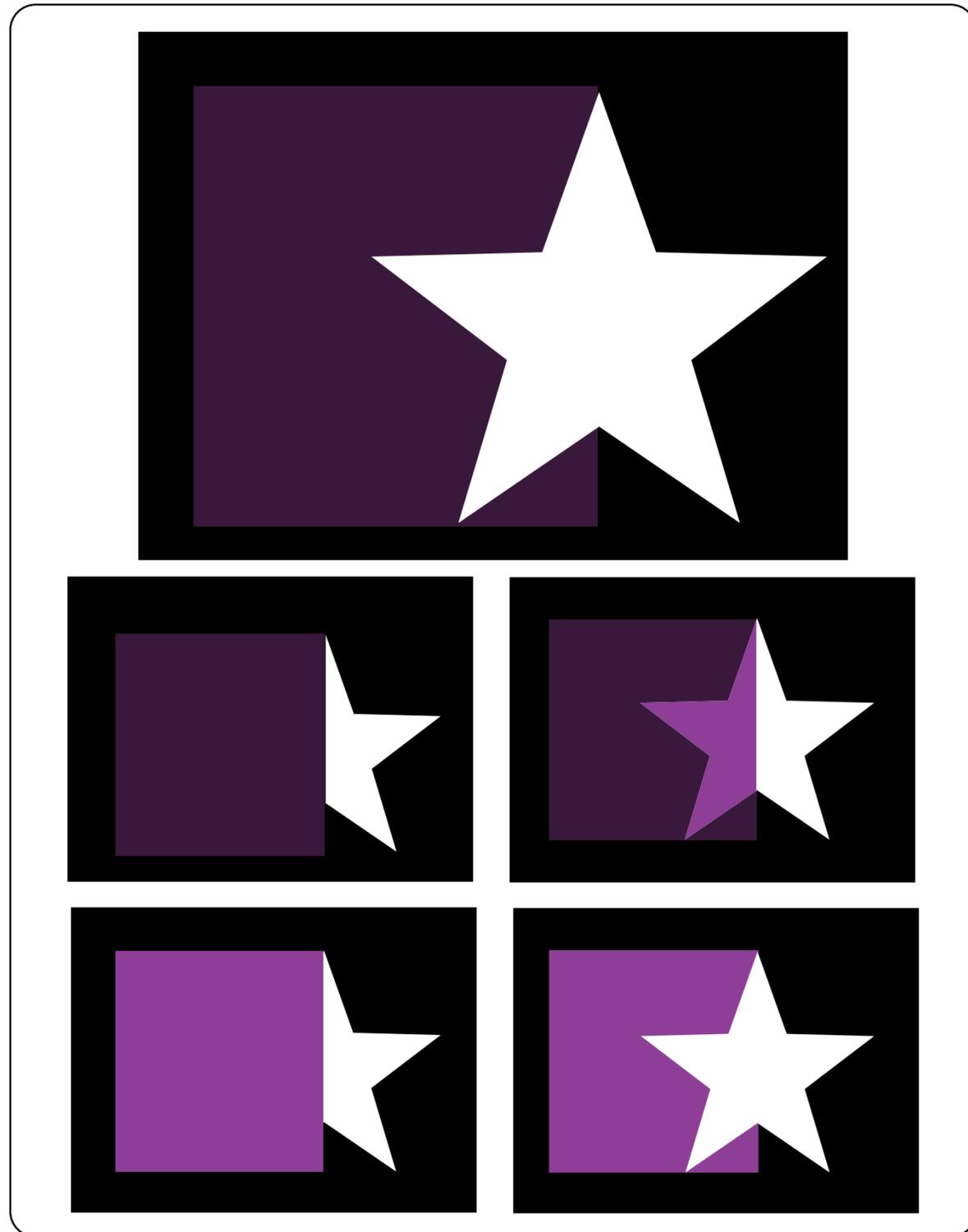


iii. The default name for white in Iridesse™ Spot Library is "White". Operator must enter two "White 1" and "White 2" name is the Spot Library. [Spot Color] > [Custom] and click [New]. Input [0.00, 0.00, 0.00] in LAB value.



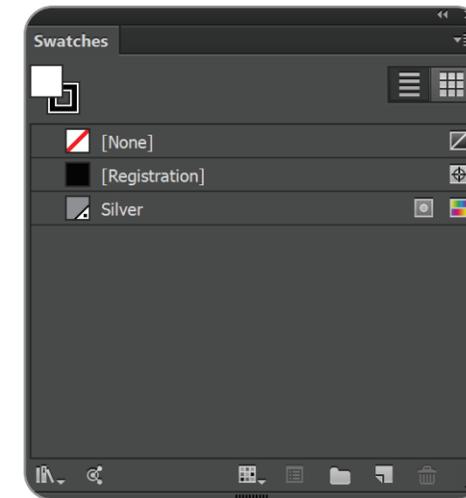
Knock Out & Overprint on Special Dry Ink

Designer must understand the concept of overprint and knock out and its application, especially when Iridesse™ uses white color underlay or two layer effects.

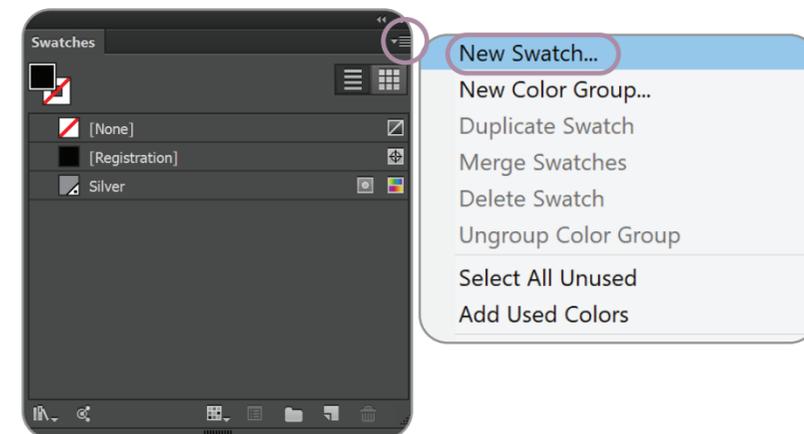


6 Color Creation

i. Import job from “Photoshop Metallic Channel” (page 18 to 23). “Silver” will be automatically added to Swatches.

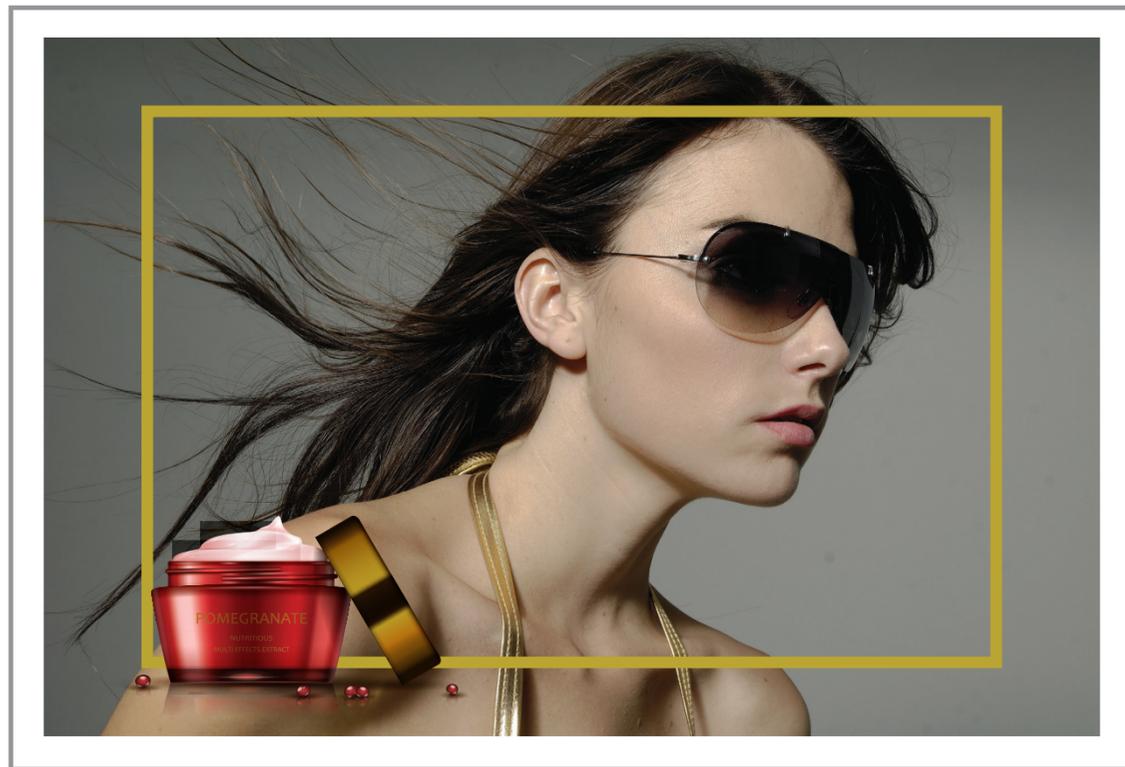


ii. Applying Gold on “Frame”
Choose [Window] > [Swatches] and choose [New Swatch]

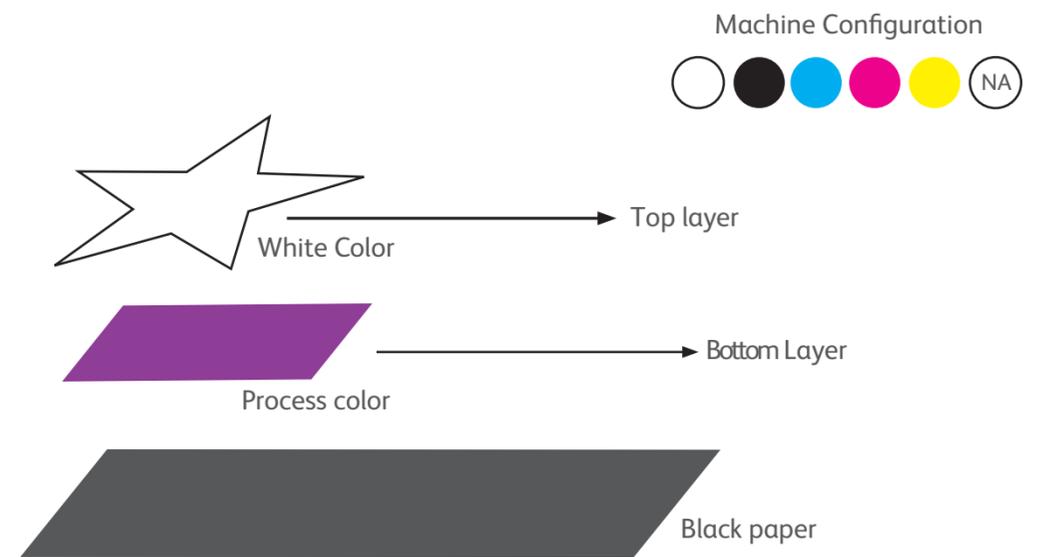


6 Color Creation

2 Special Dry Inks and CMYK can be easily printed with just one pass to maximize productivity. Designs of artwork requires layering and overprint for top layer.

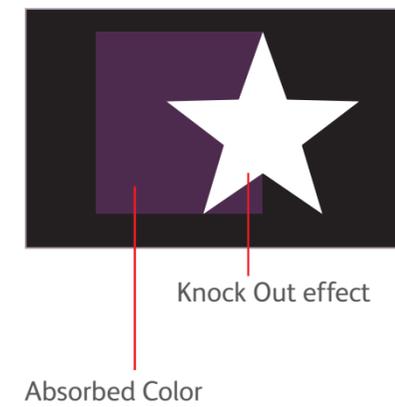


Knock Out & Overprint on Special Dry Ink



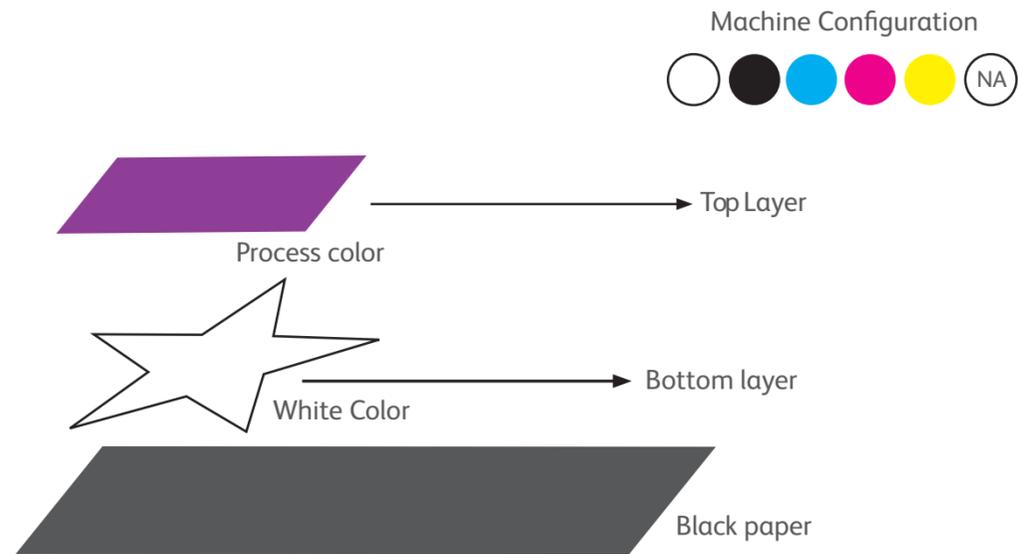
Result of Knock Out

Any Process Color that overlaps with any Spot Color will automatically render a Knock Out effect when printing, so that original Process Color is pre-spaced for Spot Color printing.



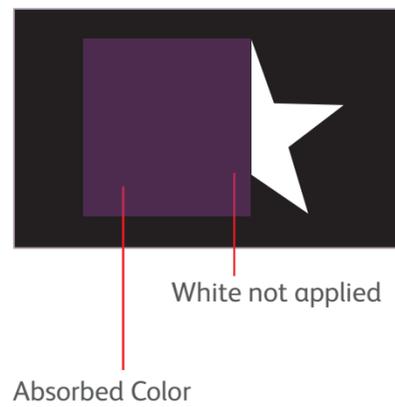
As the pure Process Color is printed in dark media, the color will be absorbed by the media, the original color will not be displayed accurately.

Knock Out & Overprint on Special Dry Ink



Result of Overprint

To print Process Color on the dark media, add the White Spot Color to the bottom layer of the Process Color, and ensure that the Top Layer (Process color) is set as Overprint effect. At this time, process colour will automatically overlap on the white background, and the Process Color will be displayed accordingly.

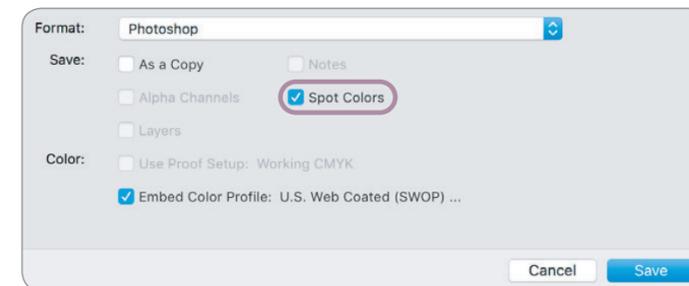


Metallic Channel in Photoshop

ix. Silver will be printed on the black area.

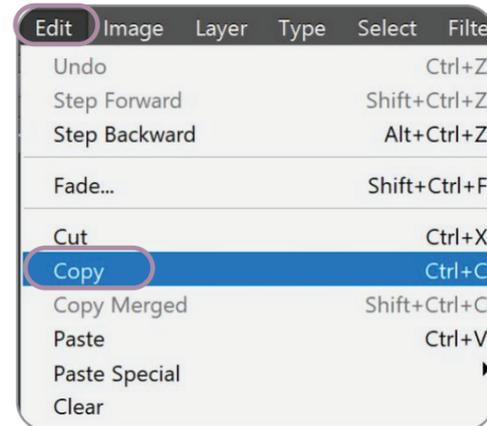
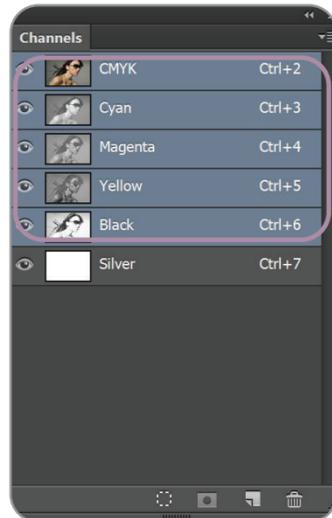


x. To save, check [Spot Colors]

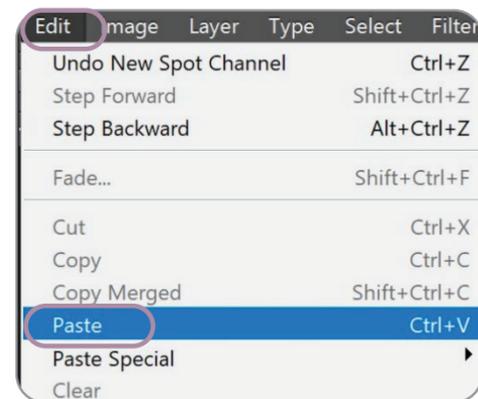


Metallic Channel in Photoshop

vii. Select [CMYK] Channel and choose [Select] > [Copy]

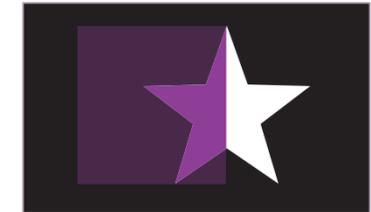
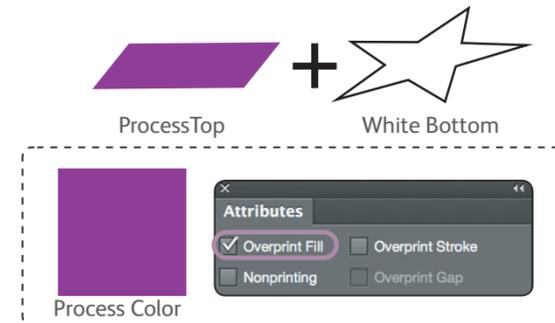


viii. Select [Silver] Channel and choose [Select] > [Paste]

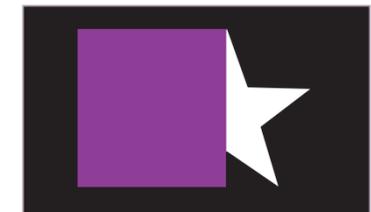
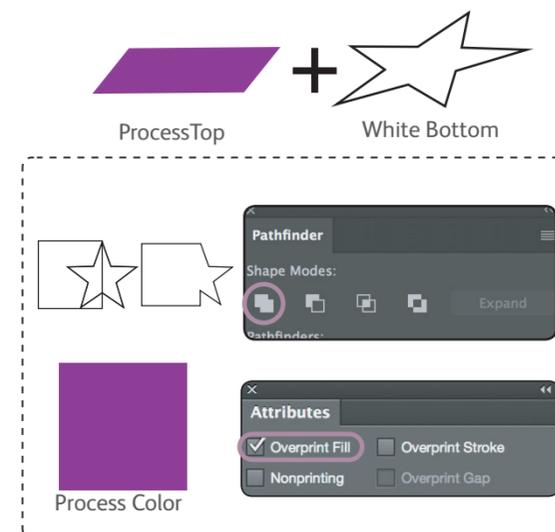


Knock Out & Overprint on Special Dry Ink

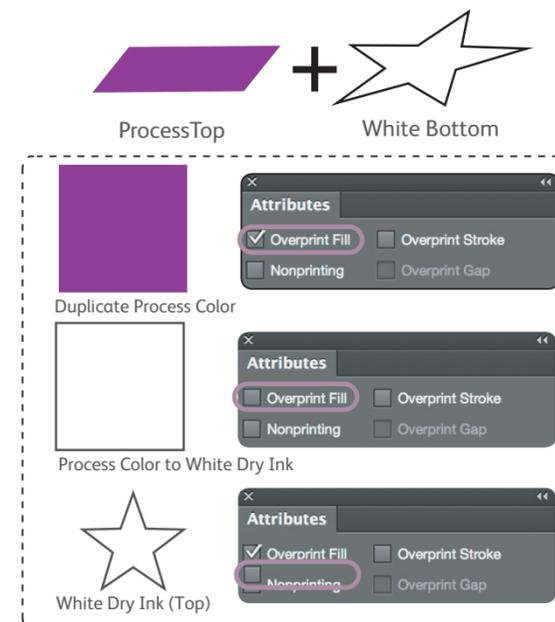
Result of Overprint



i. Select [Windows] > [Attributes] > check [Overprint Fill] on Process Top layer.



i. Duplicate Process Top layer
ii. Unite "Duplicate layer" and "White Bottom"
[Windows] > [Pathfinder] and choose [Unite]
iii. Select [Windows] > [Attributes] > check [Overprint Fill] on Process Top layer.



i. Duplicate "Process Top Layer"
ii. Move "White Bottom" to toppest layer (Do not overprint)
iii. Overprint "Process Top Layer" and fill "Duplicate Process Top Level" to [White Dry Ink]
Select [Windows] > [Attributes] > check [Overprint Fill] on Process Top layer

Black Texts on Metallic Dry Ink

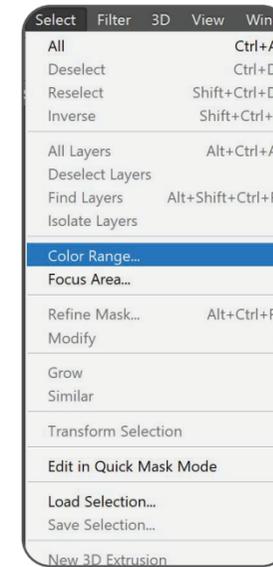
In most cases, black texts are used on metallic dry ink background. However, the black texts will not appear as pure black due to the default overprint settings.

How
can I achieve
pure black effects
on Metallic Dry Ink?

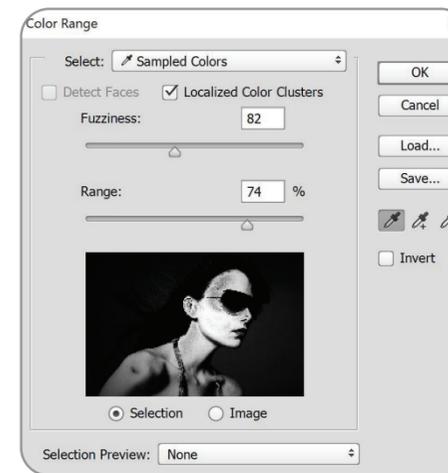
Oh,
now I know
the secret!

Metallic Channel in Photoshop

v. Select area which require metallic effect. "Color Range" for this example. Choose [Select] and [Color Range]

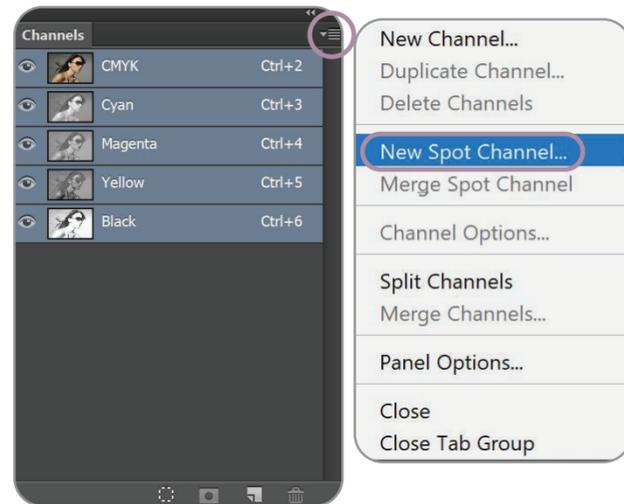


vi. Use "Eyedropper" to pick the color area intended for metallic effect.

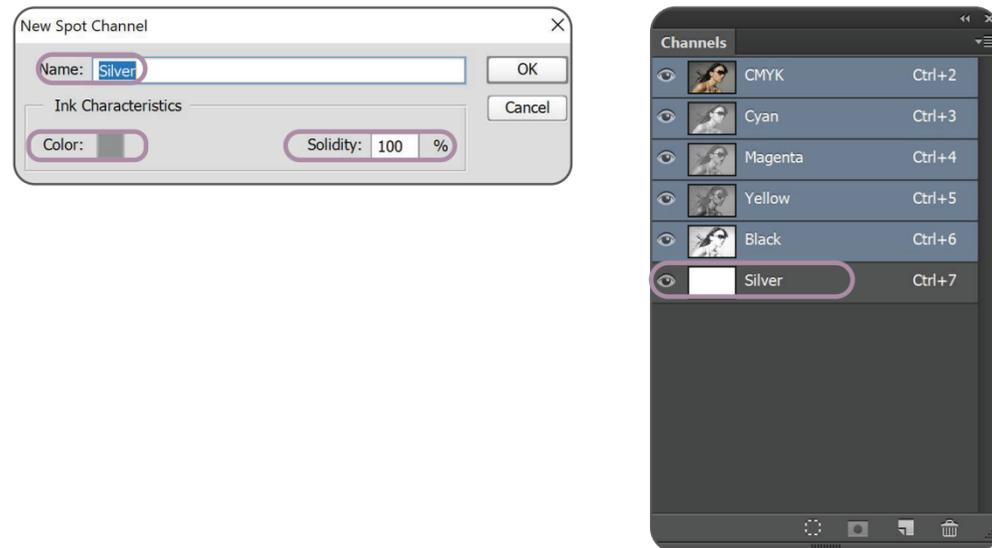


Metallic Channel in Photoshop

iii. Click new and choose [New Spot Channel]



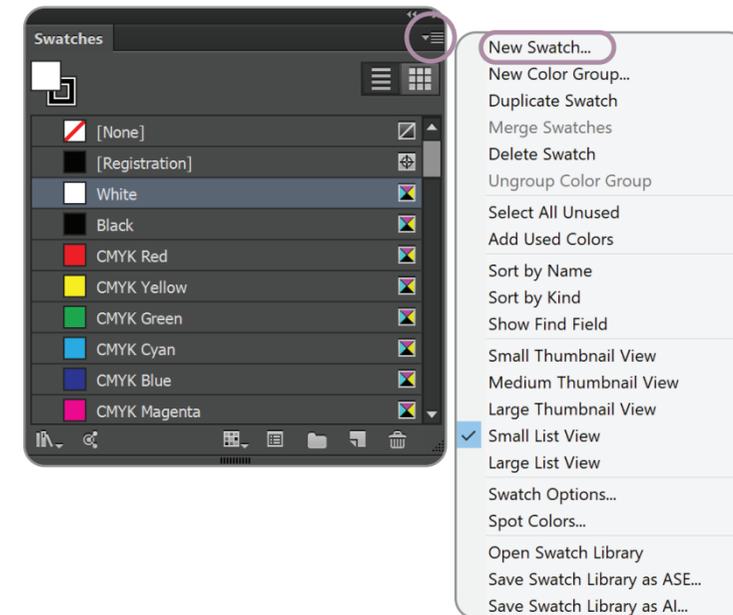
iv. At "Name" input [Silver] > Solidity to [100] and pick any color in "Color"



Black Texts on Metallic Dry Ink

1. Adding New Swatches (Adobe Illustrator)

- i. Open Adobe Illustrator. Choose [Window] > [Swatches]
- ii. At Swatch palette, select [Open Swatch Library] > [New Swatch].

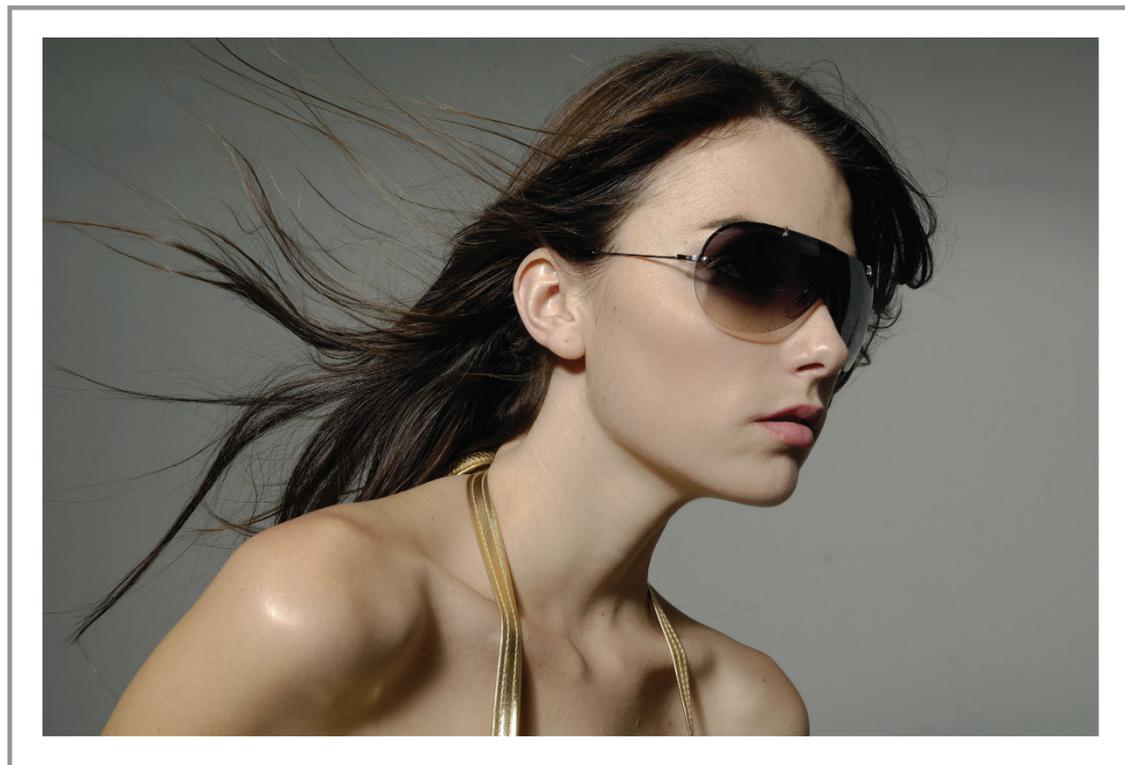


iii. At "Swatch Name", input name "Black Text Spot" (Ensure that the exact name, case sensitive appear at GX-Print server Spot Library). Choose [Spot Color] at "Color Type". Under "Color Mode", choose [CMYK] and input 99%.



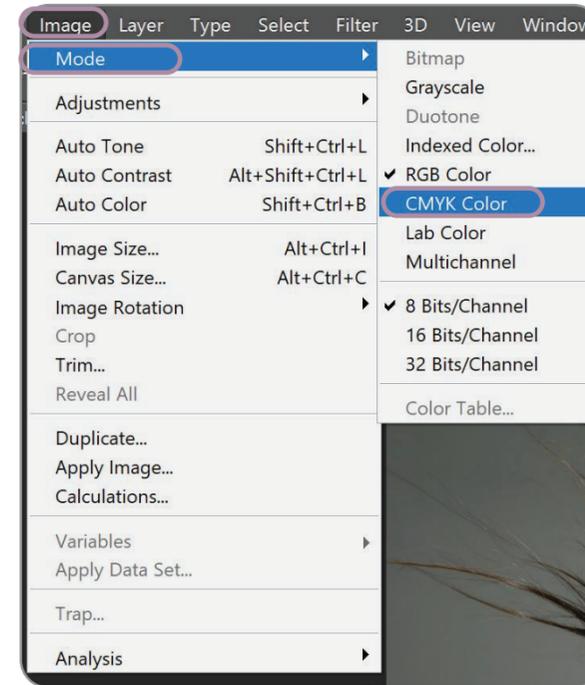
Metallic Channel in Photoshop

Metallic effect can be applied to image files by creating Spot Channel in Photoshop. This allowed designer to easily select a certain area and create a metallic effect before importing it to Indesign or Illustrator



Metallic Channel in Photoshop

i. Convert image to CMYK, go to [Image] > [mode] > and choose [CMYK Color]



ii. Create Spot Channel [Window] > [Channels]

