Produce stunning **purples**, intense **oranges** and **hot pinks** by blending **Neon Pink** with CMYK.

Oranges, purples and pinks produced with CMYK on digital presses traditionally print duller or darker than their corresponding offset Pantone® colors. With the addition of 5th Color Neon Pink, you can achieve a wider range of colors and get closer to the actual hues shown on Pantone® chips.

This tutorial will demonstrate how to blend CMYK with Neon Pink.

This is a **single-pass** process, where the Neon Pink is printed in-line with the CMYK.

Single-pass blend of Neon Pink and CMYK

Neon Pink (single-pass)

CMYK base (single pass)

Non-specific media

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1. Open the layout you are looking to enhance with Neon Pink toner. In this example we will start in InDesign but we'll use Photoshop along the way. Create a **New Swatch** by clicking the top right corner of the swatch palette and select **New Color Swatch**.
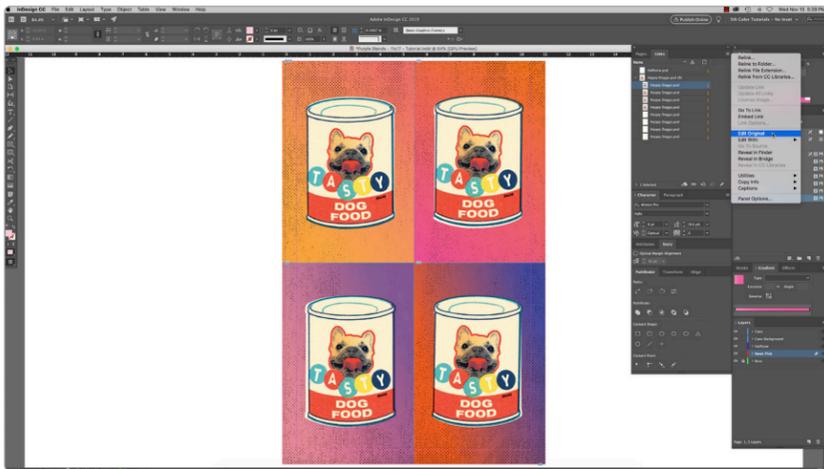
a. Name the swatch **NeonP.**
b. Select **Spot Color** for Color Type.
c. Select **CMYK** for Color Mode.
d. It is recommended to choose 80% Magenta, to represent Neon Pink and maintain a consistent look/feel of the overall design.
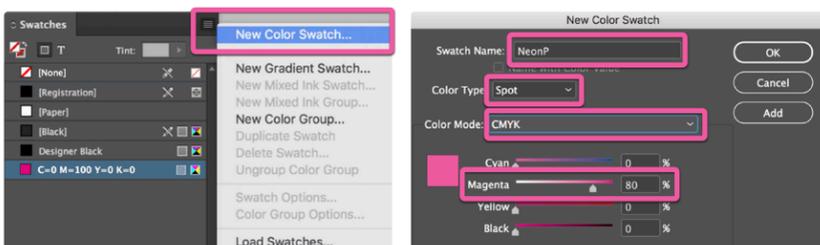
2. The **NeonP** spot color will represent the Neon Pink Toner.
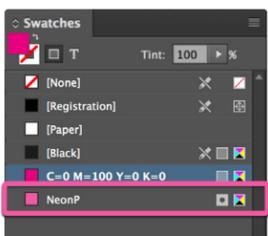
3. The amount of toner density can be adjusted in the color panel with the Density slider.

a. From the Menu bar select **Window > Color** to display the **Color Panel**. If the Density slider is not displayed, select **Show Options**.
b. Drag the Density slider or enter the percentage in the box to adjust the density.
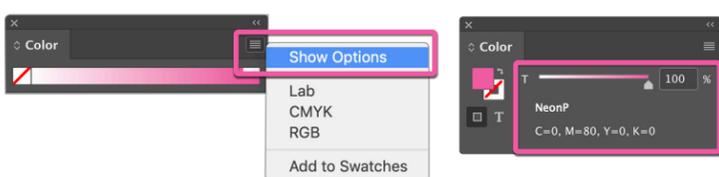
4. Create or choose an existing solid or gradient (orange, pink, purple) within InDesign.

a. Deconstruct the formula of your color or gradient.
b. Duplicate artwork, placing it directly on top of itself.
c. Assign the top-most element with percentages of NeonP that ,when blended, will match the % of magenta from the target color or gradient.
d. Set the blending mode of the Neon Pink layer to **Multiply** to allow the NeonP to print / mix with the CMY elements beneath it.

Note: Reference the Color tab for the actual % equivalent when matching existing blends, i.e. 100% NeonP is roughly 80% Magenta.

a.

M80, Y100   M80   Y100 (base)

b.

M80, Y100 (base)

c.

100NeonP, Y100 (base)

d.

100 NeonP (Multiplied), Y100 (base)
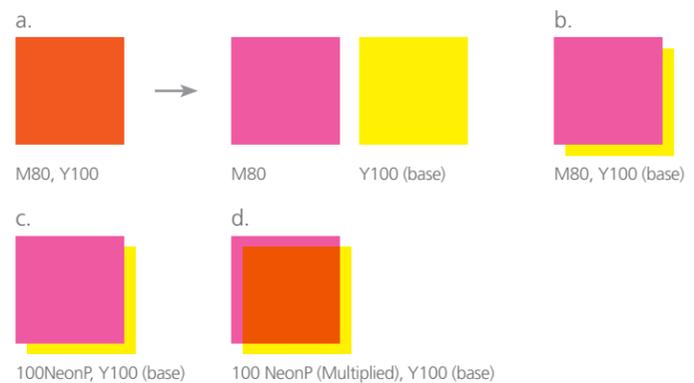
5. To add tints of NeonP to your color palette for different gradient percentages:

a. Select the Spot Color.
b. In the color tab, adjust the percentage to a specific density.
c. Select **Add to Swatches.**
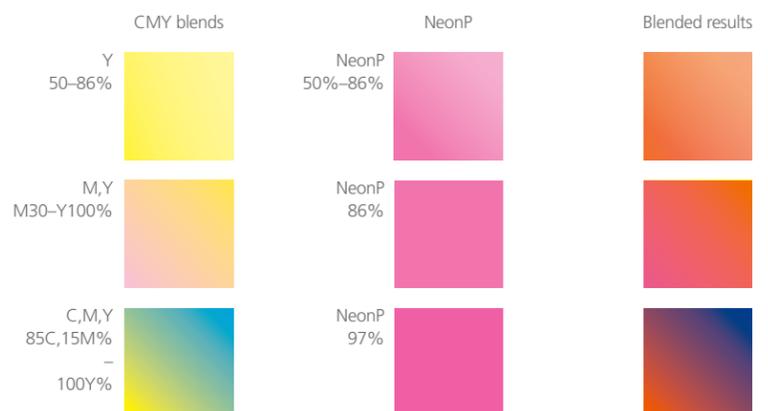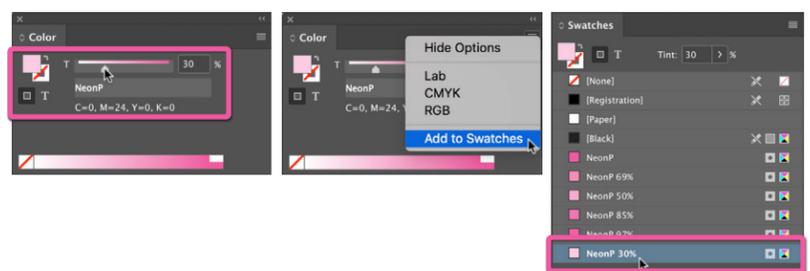
CMY blends	NeonP	Blended results
Y 50–86%	NeonP 50%–86%	
M,Y M30–Y100%	NeonP 86%	
C,M,Y 85C,15M% – 100Y%	NeonP 97%	

6. Next we'll modified the raster image within Photoshop.

    a. In the Links tab, select **Edit Original** from the drop down menu.
    b. Check to see if the image needs to be **converted to CMYK** by checking channels tab.
    c. If that's the case, select from the menu bar, **Image > Mode > CMYK Color**.
    d. Confirm mode by clicking on the **Channels** tab.
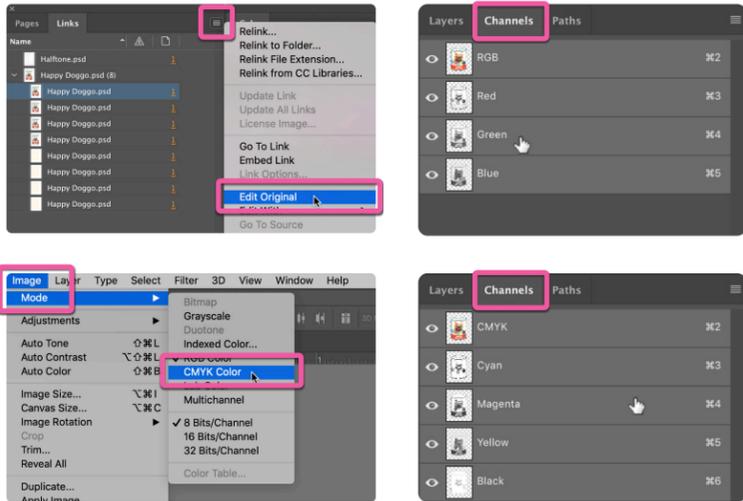
7. At this point the image is ready to be modified with Neon Pink.

    a. Select the **Magenta layer** in the **Channels tab**.
    b. From the menu bar, use **Select > All (⌘A)**.
    c. Use **Edit > Cut (⌘X)**.

Note: Confirm the foreground is set to black, not white, otherwise you'll be adding magenta instead of subtracting it. The absence of the Magenta will give a yellow-ish appearance.
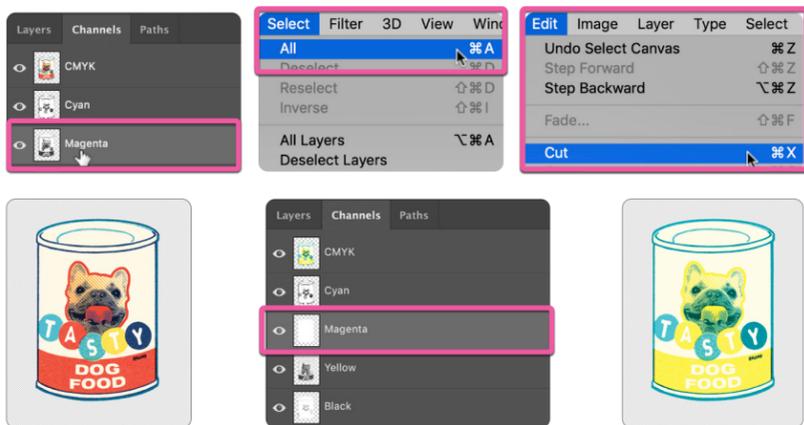
8. Next create a **New Spot Channel** in the Channels tab.

    a. Name the Channel **NeonP.**
    b. Use 80% Magenta for the indicator color.
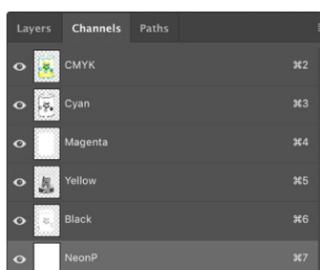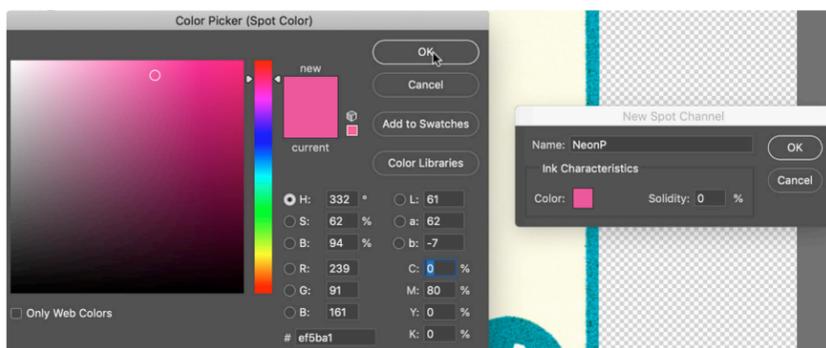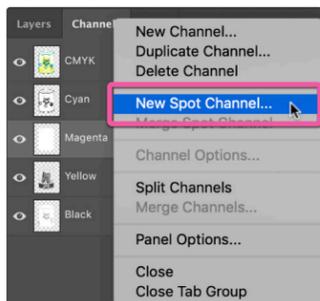
9. Paste the Magenta information into the NeonP Spot Channel.
From the Menu bar, select **Edit > Paste Special > Paste in Place** (**Shift+⌘+V**).
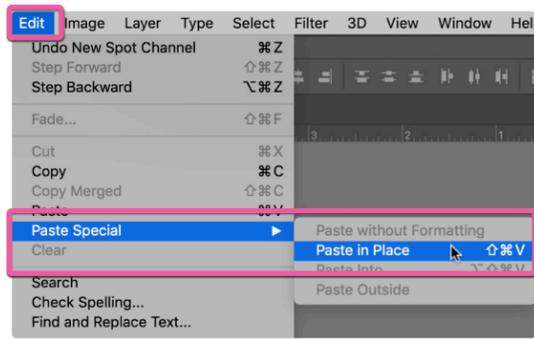
Without Neon Pink

With Neon Pink
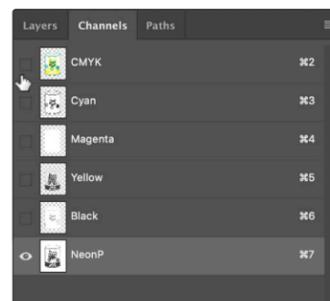
CMYK Channels turned off
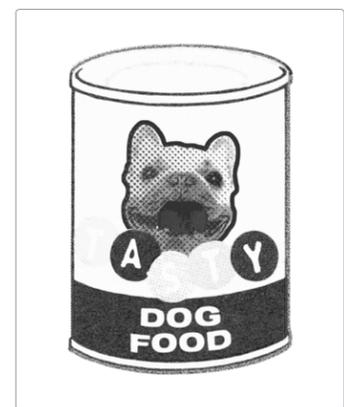
Neon Pink channel isolated

10. With the NeonP channel created and formatted, its time to save the PSD. Make sure **Spot Colors** box is checked to ensure the NeonP spot color will be present when re-linking.
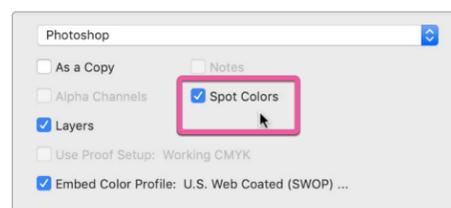
11. With your elements formatted and blending mode set, you are ready to create a PDF.

Export your file as a PDF, **File > Export**, using the PDF Preset **PDF/X–4:2008**. This will allow Fiery® Command WorkStation to recognize where to apply the 5th Color Neon Pink Toner.
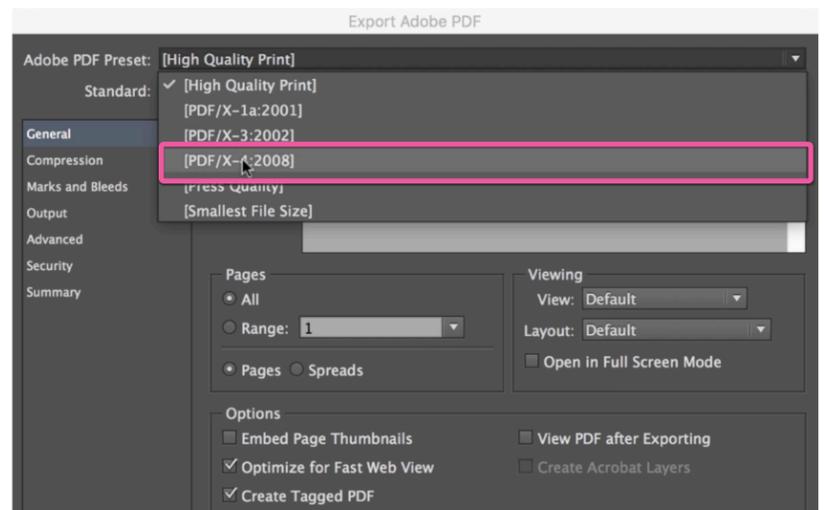
12. With your PDF exported, it's a good idea to open up the file using Adobe
Acrobat to confirm not only the presence of the Neon Pink toner, but also
that it is blending properly.

    a. Navigate to the **Tools** menu and select **Print Production**.
    b. Select **Output Preview**.

a.

b.
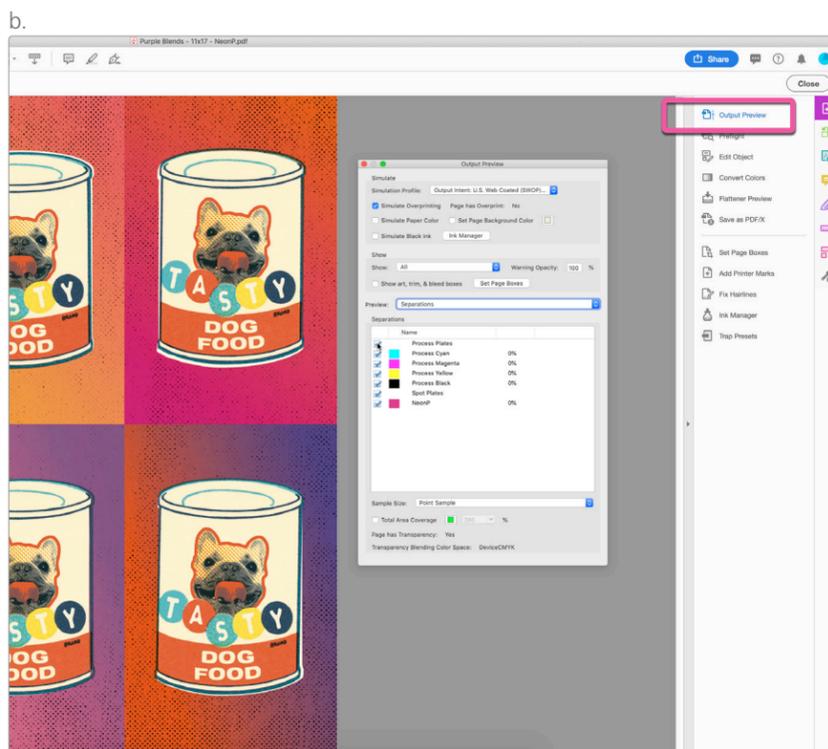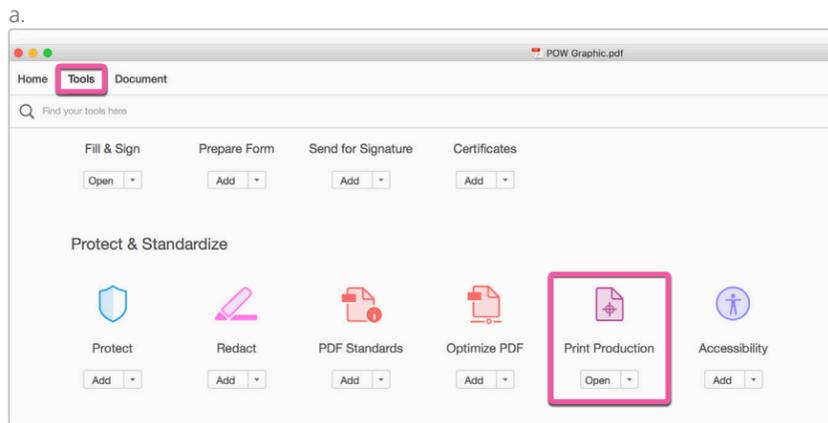
13. Locate the **Spot Colors** in the **Separations** window.

    a. Confirm the presence of **NeonP Spot Color** by mousing over the artwork.
    b. The percentage will be displayed in the **Separations** window.
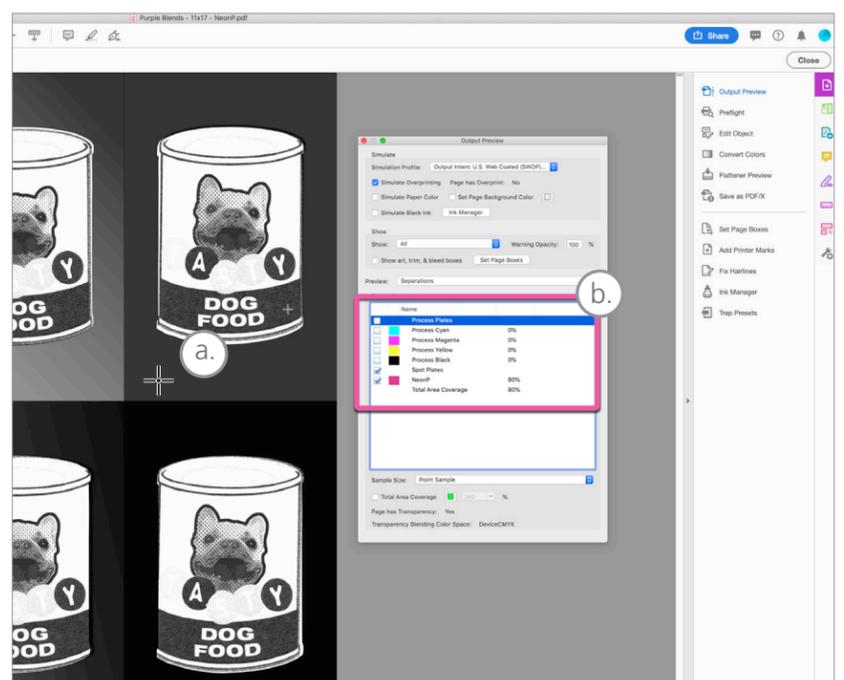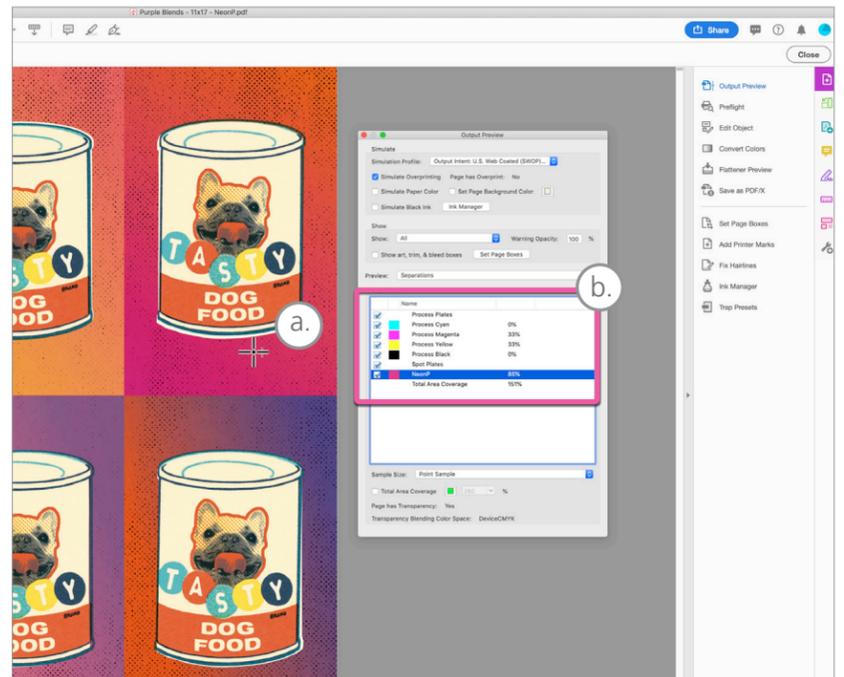
Note: Process plates have been turned off to isolate 5th Color.

14. With the presence of the Neon Pink 5th Color confirmed and the
blending mode properly formatted, you're ready to print your file.

For more step-by-step and video tutorials, head to
RicohBusinessBooster.com/5thColor

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