How to apply **Invisble Red** to add authentication to your output

This tutorial will explain and demonstrate how to create and apply an Invisible Red spot color to a layout using vector elements.

In this example, a swatch and layer will be created in InDesign, we will use vector art, which will enhance the layout when a UV light is used to reveal it.

Before areas of the file are enhanced, begin by creating a New Color Swatch, which the Fiery® Command WorkStation will use when applying the Invisible Red toner.

Invisible Red toner applied to vector elements

Invisible Red (Single-pass)

CMYK (Single-pass)

Non-specific media
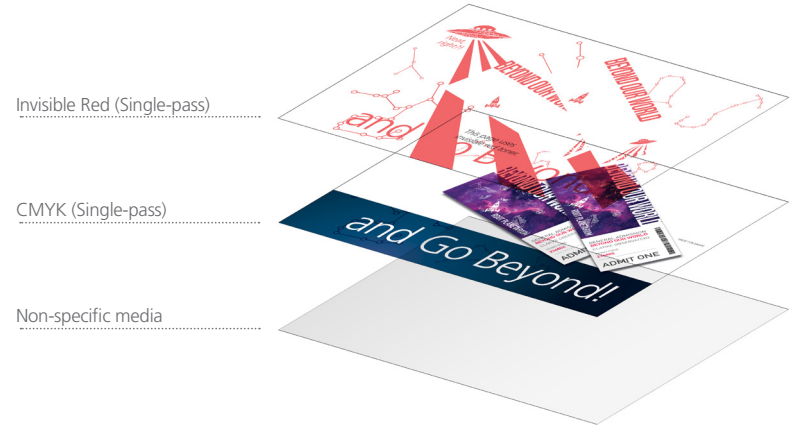
1. Open the layout you are looking to enhance with Invisible Red toner. In this example we are using InDesign. We have museum tickets that we want to enhance with Invisible Red which will act as a validation feature when the final printed piece is placed under a UV light. *Note: IvR elements will not be visible without the use of a UV light, preferably within 370nm – 390nm wavelength.*

2. To begin, a new swatch is needed. Create a **New Swatch** by clicking the top right corner of the swatch palette, and select **New Color Swatch**.

   a. Name the swatch **IvR.**
   b. Select **Spot Color** for Color Type.
   c. Select **CMYK** for Color Mode.
   d. We're using an pink-orange color to indicate the presence of the IvR.
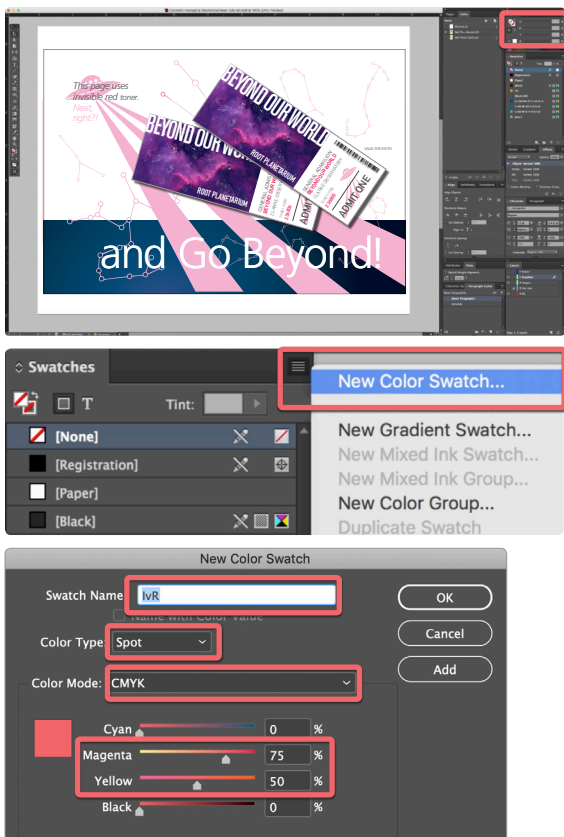
3. The **IvR** spot color will represent the Invisible Red toner.
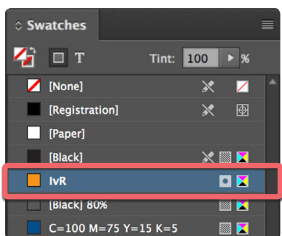
4. Toner density should be kept at 100% to ensure maximum application.

   a. From the Menu bar select **Window > Color** to display the Color Panel. If the Density Scale is not displayed, select **Show Options**.
   b. Drag the Density Scale or enter 100 in the percentage box to adjust the density.
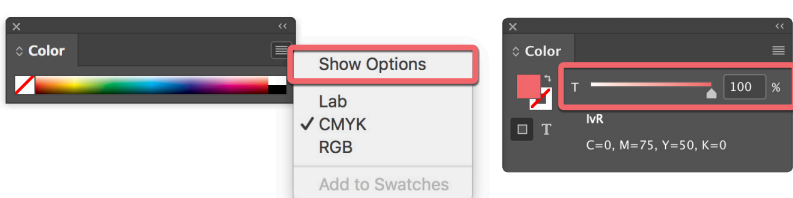
5a. Select the artwork you're looking to enhance and apply the **IvR** spot color. Set the **Blending Mode** of the artwork to **Multiply** since it is positioned over the tickets and background layer. If it's not set to Multiply then the background layer information underneath will not be present when the PDF is exported.

*(Note: Images cannot utilize the Overprint Fill feature — an output effect only for vector art and type. Images must use **Multiply** to ensure any artwork underneath will print properly.*
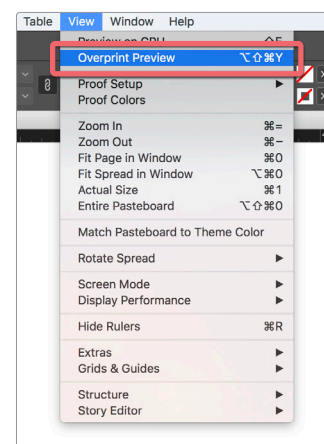
5b. Overprint Fill can be used in place of Multiply for **vector or type elements only**. To do that:

   a. Select **Window**.
   b. Scroll down to **Output**.
   c. Select **Attributes**.
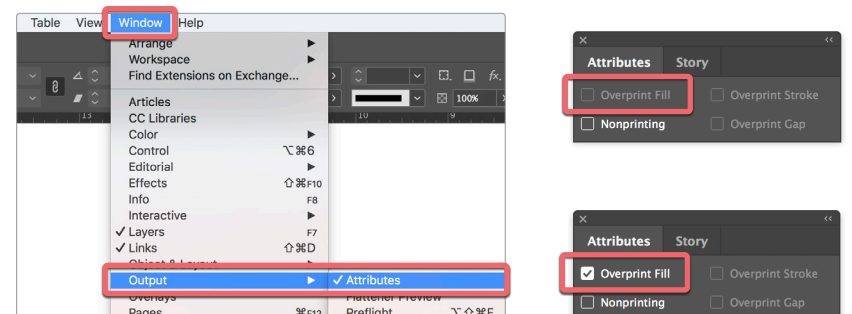
   d. With the **Attributes** panel open and the top-most object selected, check **Overprint Fill**. This will blend the object on top with whatever objects are underneath it. The results will not be immediately visible, as Overprint Fill is an *output effect*.

6. To confirm the artwork has been formatted correctly when using **Overprint Fill**, use **Overprint Preview** under the **View** menu to simulate the effect, otherwise the object will appear unchanged. The artwork will appear darker when over other artwork if formatted correctly, as InDesign is simulating the blending of the IvR spot color (75m/50y in this case) with artwork below it.
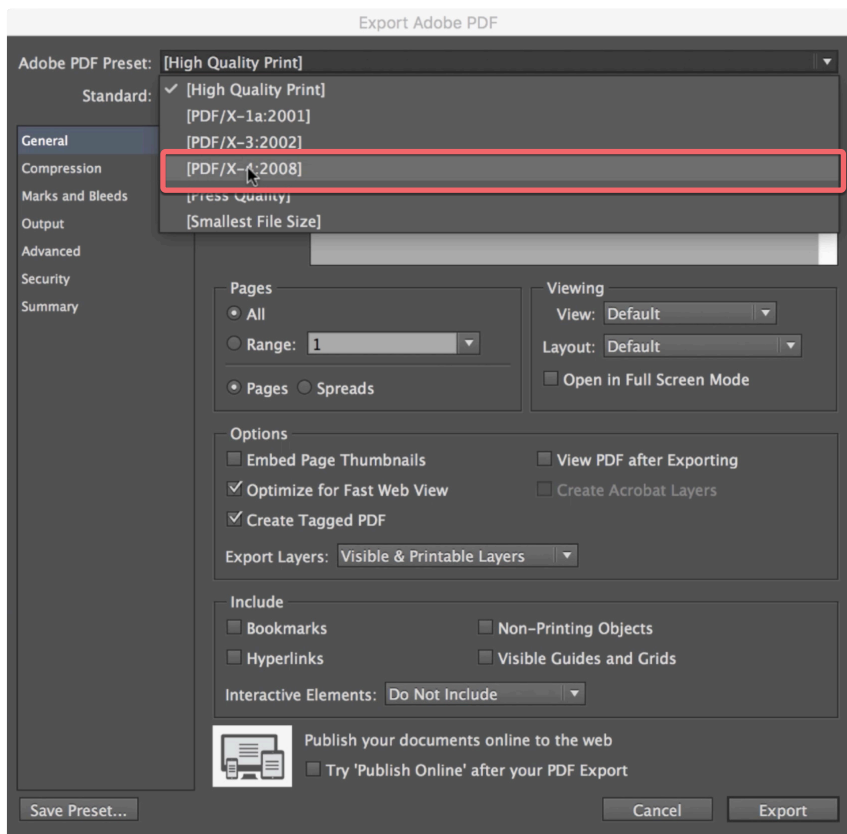
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7. With your elements formatted and blending mode properly set, you are ready to create a PDF.

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 Invisible Red toner.


8. 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 Invisible Red toner, but also that it is blending properly.

    a. Open the PDF using Acrobat.
    b. Navigate to the **Tools** menu and select **Print Production**.
    c. Select **Overprint Preview**.
    d. Confirm **Simulate Overprinting** is checked.

b.

c.

d.
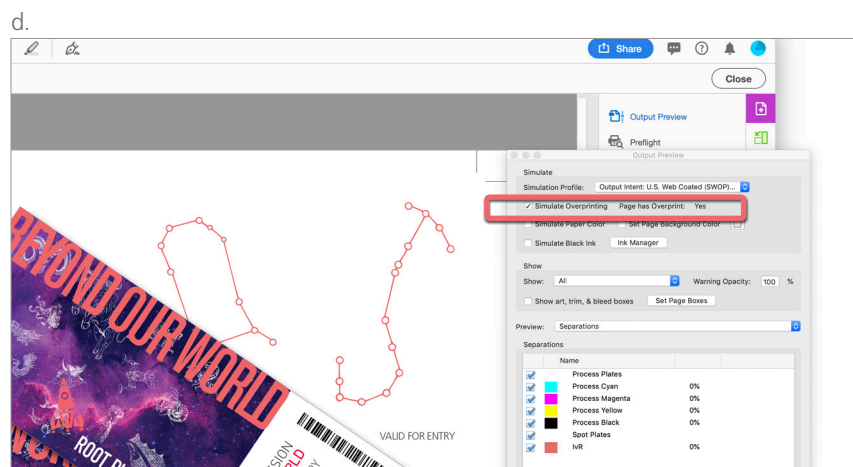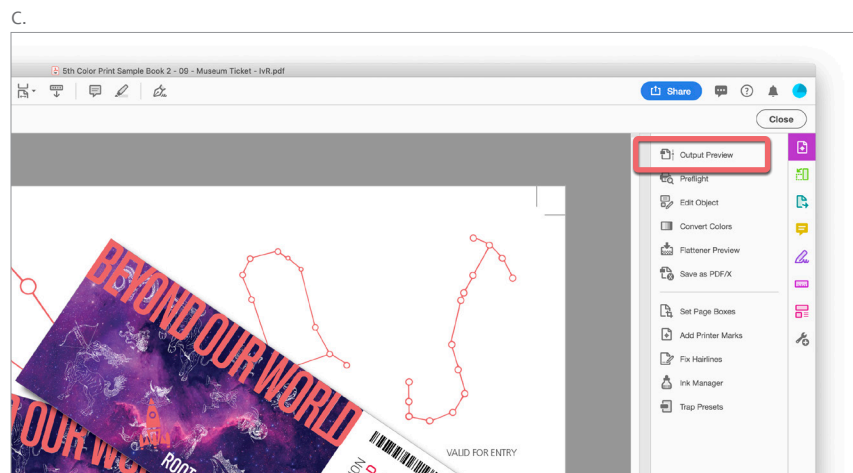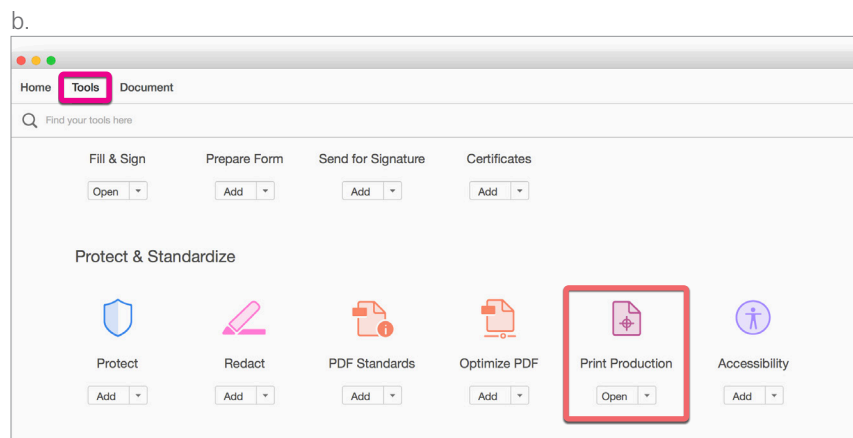
9. Locate the **Spot Colors** in the **Separations** window.

    a. Confirm the presence of **IvR Spot Color** by mousing over the artwork.
    b. The percentage will be displayed in the **Separations** window.
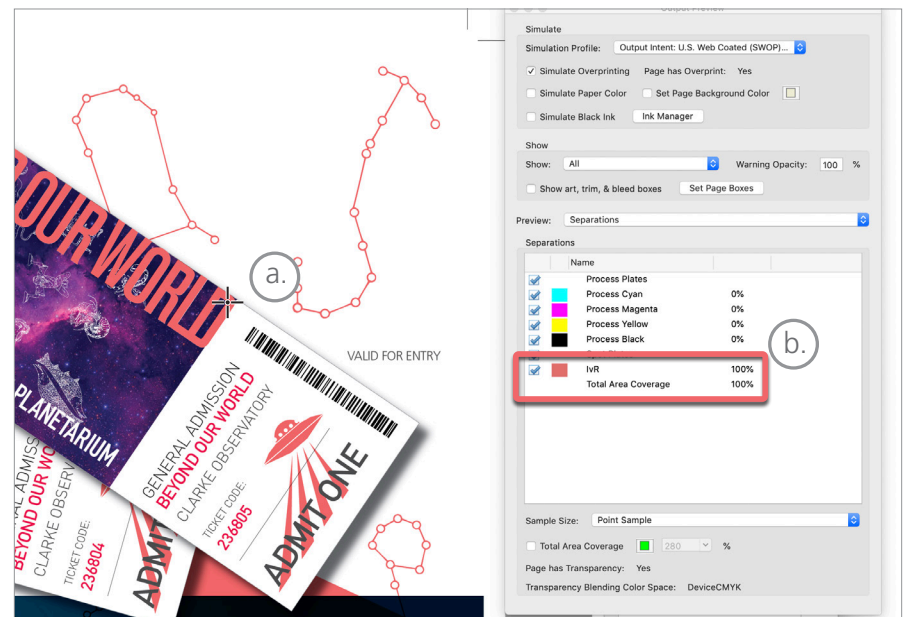
The blend of color will appear dark red since the colors being mixed on-screen are 75m/50y and whatever lies below.

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

*Check out the File Preparation Series on **RicohBusinessBooster.com** for "Printing the 5th Color from Fiery® Command WorkStation" for steps on Printing PDFs.*

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