

# Converting Colors

Hex(7800ED)

Have a look what the booklet for  
Hex(7800ED) contains.

<b>Hex(7800ED)</b> .....	3
<i><b>Conversions</b></i> .....	4
<i><b>Details</b></i> .....	6
<i><b>Harmonies</b></i> .....	11
<i><b>Previews</b></i> .....	23
<i><b>Color Blindness Simulation</b></i> .....	26
<i><b>CSS Examples</b></i> .....	29

**Color**

**Hex(7800ED)**

# Conversions

## Conversions Part 1

<b>Format</b>	<b>Color</b>
Hex	7800ED
RGB	120, 0, 237
RGB Percent	47%, 0%, 93%
CMY	0.5294, 1.0000, 0.0706
CMYK	0.49, 1.00, 0.00, 0.07
HSL	270°, 100%, 46%
HSV	270°, 100%, 93%
XYZ	23.0318, 10.1075, 80.8578
YIQ	62.8980, -4.5570, 99.1470

# Conversions

## Conversions Part 2

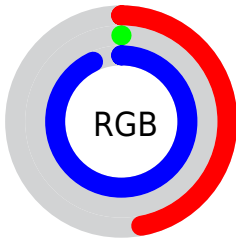
<b>Format</b>	<b>Color</b>
<b>R<sub>YB</sub></b>	120, 0, 237
Decimal	7864557
CIE Lab	38.03, 78.81, -87.95
CIE LCh	38, 118.096, 311.864
Yxy	10.1075, 0.2020, 0.0887
Android (android.graphics.Color)	4286054637 (0xFF7800ED)
YUV	62.8980, 85.8323, 50.0785
Hunter-Lab	31.7923, 73.6771, -128.5385

# Details

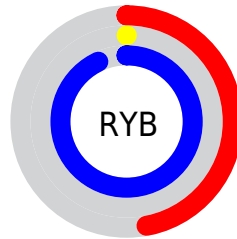
The Hex color **7800ED** is a dark color, and the websafe version is hex **9900FF**. The color can be described as dark washed purple. A complement of this color would be **75ED00**, and the grayscale version is **3E3E3E**.

A 20% lighter version of the original color is **B750FF**, and **3000B3** is the 20% darker color. If you saturate the color by 10%, you get **7800ED**, and if you desaturate by 10%, it is **8418ED**.

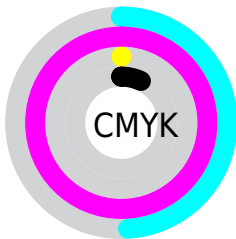
# Distribution



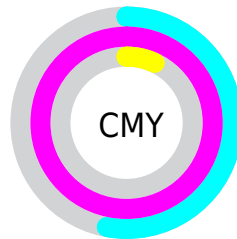
- Red (47%)
- Green (0%)
- Blue (93%)



- Red (47%)
- Yellow (0%)
- Blue (93%)



- Cyan (49%)
- Magenta (100%)
- Yellow (0%)
- Black (7%)



- Cyan (53%)
- Magenta (100%)
- Yellow (7%)

# Brightness & Saturation Gradients

These gradients show how the Hex color 7800ED changes by changing the brightness by 10 percent. The first figure shows a shift by +10% for each color and the second figure -10%.

Similar to the brightness gradients but the following saturation gradients show a change of the Hex color 7800ED by changing the saturation by 10% instead.



 7800ED

 7800ED

FFFFFF

 5700D0

 B750FF

 3000B3

 D66DFF

 000098

 F589FF

 00007D

 FFA6FF

 000062

 FFC3FF

 000949

 FFE0FF

 000432

 FFFEFF

 00011C

 000000

 7800ED

 8418ED

 8F2FED

 9B47ED

 A75FED

 B276ED

 BE8EED

 CAA6ED

 D6BEED

 E1D5ED

# Harmonies

## Analogous

The Analogous color harmony consists of three colors that are next to each other on the color wheel.



005FFF



7800ED



DB0098

# Triad

The Triadic color harmony groups three colors that are evenly spaced from another and form a triangle on the color wheel.



7800ED



9B3C00



00787F

# Complementary

The Complementary color scheme is a pair of colors which are on the opposite of each other on the color wheel.



7800ED



75ED00

# Split Complementary

Split-complementary colors differ from the complementary color scheme. The scheme consists of three colors, the original color and two neighbors of the complement color.



007512



7800ED



4A6200

# Square

The Square scheme is like the rectangle color scheme, but the four colors are evenly spaced on the color wheel.



7800ED



D40000



007000



007ADC

# Rectangle

The Rectangle color scheme consists of four colors that form a rectangle on the color wheel.



7800ED



EF0059



007000



00775E



# Sweetspot

The Sweet Spot groups the original color and five complimentary colors.



7800ED



D9B3FF



0076ED



695280



000000



808080



# Same Dimension

The Same Dimension uses a secret algorithm to generate beautiful new colors.



7800ED



8100FF



ED00ED



706A75



5C00B5



1B0036



# Inverse Universe

The Inverse Universe completely reimagines the original color for something new.



ED0075



FF007E



00ED00



756A6F



B50059

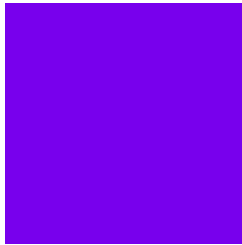


36001A



# Previews

## White Background



This preview shows how the Hex color 7800ED looks on a white background.

## Color Contrast Check

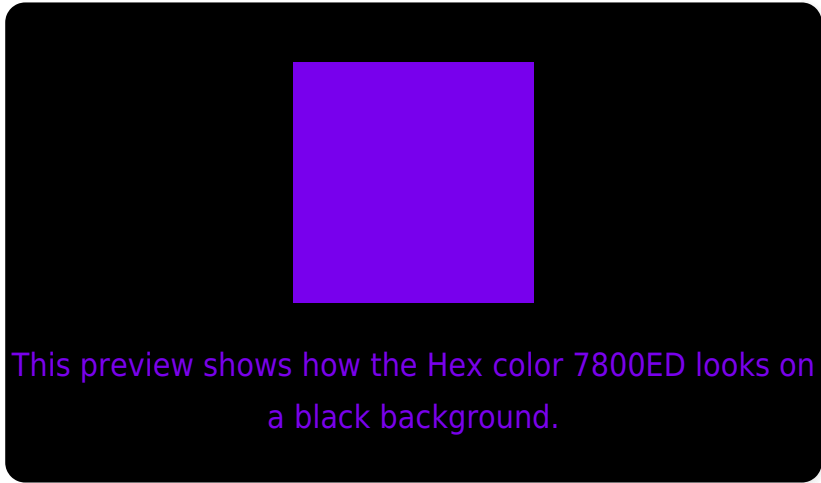
Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA × Fail

# Black Background



## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail

If you want to check with other color combinations, try the [Color Contrast Checker](#).



## Hex 7800ED Background



This preview shows how black text looks on a background with the Hex color 7800ED.



This preview shows how white text looks on a background with the Hex color 7800ED.

# Color Blindness Simulation

Color vision deficiency is a very complex topic, and I could not describe the different causes any better than Wikipedia does, so if you want to learn more, you should check out their [article about color blindness](#).


## Dichromacy



**Original Color**  
7800ED

**Protanopia**  
0058B9

**Deuteranopia**  
005E9E



**Tritanopia**  
525C64

# Trichromacy



**Original Color**  
7800ED



**Protanomaly**  
2C38CC



**Deuteranomaly**  
2C3CBB



**Tritanomaly**  
603B96

# Monochromacy



**Original Color**  
7800ED



**Achromatopsia**  
3F3F3F



**Achromatomaly**  
54287E

# CSS Examples

## Text

The CSS property to change the color of the text to Hex 7800ED is called "color". The color property can be set on classes, ids or directly on the HTML element.

This example shows how text in the color #7800ED looks like.

```
.text, #text, p{  
    color:#7800ED  
}
```

If you want to add a text shadow in that color use the text-shadow property, you can generate a text shadow directly with our [CSS Text Shadow Generator](#).

Here you see how black text with a 4 pixel #7800ED colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px #7800ED
}
```

## Border

The CSS property to change the border of an element to Hex 7800ED is called "border". The border property can be set on classes, ids or directly on the HTML element.

This example shows the color as border, it can be applied via the CSS property "border" or "border-color".

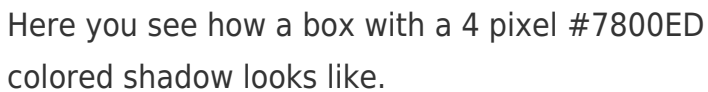
```
.border, #border, table{ border:4px solid
#7800ED }
```

If only the border color should be changed use the property `border-color`.

```
.border{ border-color:#7800ED }
```

If you want to add a box shadow in that color use:

Here you see how a box with a 4 pixel #7800ED colored shadow looks like.

A rectangular box with a thick purple border and a purple shadow. The box is white with a purple border and a purple shadow. The shadow is a 4px offset, 4px blur, 4px spread, and #7800ED color.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px #7800ED; -webkit-box-shadow:4px 4px  
4px 4px #7800ED; box-shadow:4px 4px 4px  
4px #7800ED }
```

# Background

The CSS property to change the background color of an element to Hex 7800ED is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background:#7800ED }
```

If only the background color should be changed can be used:

```
.background{ background-color:#7800ED }
```

This example shows the color as background, it is applied via the CSS property "background".

To optimize and compress your CSS code, you can use our [online CSS compressor and optimizer](#) based on csstidy. If you want to create a linear or radial gradient as background or border, check our [CSS Gradient Generator](#).



Hey! You found this booklet interesting? Support Converting Colors with the new Membership Option!

The pro membership hides all ads, plus gives you double the colors in the color bucket, and more awesome pro features!

**[Learn more, Memberships starting at \\$2.50/m!](#)**

**Follow me  
on Twitter!**

**@ConvertingColor**