

# Converting Colors

XYZ(80.0512, 79.2065,  
117.8949)

Have a look what the booklet for  
XYZ(80.0512, 79.2065, 117.8949)  
contains.

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# **Color**

**XYZ(77.8795, 78.4357,  
105.6427)**

# Conversions

## Conversions Part 1

Format	Color
Hex	E6E2FF
RGB	230, 226, 255
RGB Percent	90%, 89%, 100%
CMY	0.0980, 0.1137, 0.0000
CMYK	0.10, 0.11, 0.00, 0.00
HSL	248°, 100%, 94%
HSV	248°, 11%, 100%
XYZ	77.8795, 78.4357, 105.6427
YIQ	230.5020, -6.9250, 9.8670

# Conversions

## Conversions Part 2

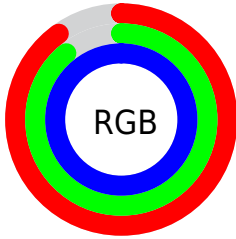
<b>Format</b>	<b>Color</b>
R <sub>Y</sub> B	230, 226, 255
Decimal	15131391
CIE Lab	90.98, 6.76, -13.55
CIE LCh	91, 15.145, 296.524
Yxy	78.4357, 0.2973, 0.2994
Android (android.graphics.Color)	4293321471 (0xFFE6E2FF)
YUV	230.5020, 12.0775, -0.4403
Hunter-Lab	88.5639, 1.9787, -8.7288

# Details

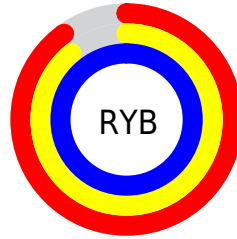
The XYZ color **77.8795, 78.4357, 105.6427** is a light color, and the websafe version is hex **CCCCFF**. A complement of this color would be **89.2729, 97.5211, 86.0735**, and the grayscale version is **75.5044, 79.4366, 86.5064**.

A 20% lighter version of the original color is **95.0500, 100.0000, 108.9000**, and **42.2115, 42.2017, 59.3470** is the 20% darker color. If you saturate the color by 10%, you get **64.8388, 62.1754, 103.1914**, and if you desaturate by 10%, it is **92.8454, 97.2234, 108.4803**.

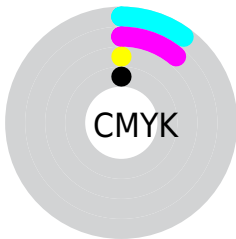
# Distribution



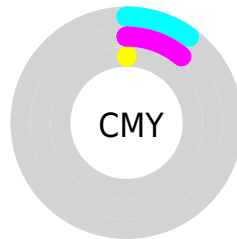
- Red (90%)
- Green (89%)
- Blue (100%)



- Red (90%)
- Yellow (89%)
- Blue (100%)



- Cyan (10%)
- Magenta (11%)
- Yellow (0%)
- Black (0%)



- Cyan (10%)
- Magenta (11%)
- Yellow (0%)

# Brightness & Saturation Gradients

These gradients show how the XYZ color 77.8795, 78.4357, 105.6427 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 XYZ color 77.8795, 78.4357, 105.6427 by changing the saturation by 10% instead.



77.8795, 78.4357,  
105.6427

77.8795, 78.4357,  
105.6427

476.6036,  
489.6453, 599.5367

58.2774, 58.4320,  
80.3782

129.3465,  
131.1641, 171.0094

42.2759, 42.1560,  
59.5017

161.9422,  
164.6576, 211.9488

29.5094, 29.2235,  
42.5944

199.5997,  
203.4165, 258.9502

19.6127, 19.2499,  
29.2380

242.6845,  
247.8251, 312.4321

12.2205, 11.8510,  
19.0138

291.5620,  
298.2679, 372.8132

6.9673, 6.6423,  
11.5033

346.5974,

3.4878, 3.2394,

355.1293, 440.5120

6.2880

408.1561,  
418.7936, 515.9469

■ 1.4167, 1.2580,  
2.9494

■ 0.2680, 0.1083,  
1.0689

■ 77.8795, 78.4357,  
105.6427

■ 77.8795, 78.4357,  
105.6427

■ 64.8388, 62.1754,  
103.1914

■ 92.8454, 97.2234,  
108.4803

■ 53.6386, 48.3252,  
101.1084

95.0500, 100.0000,  
108.9000

■ 44.1973, 36.7727,  
99.3761

■ 36.4245, 27.3930,  
97.9753

■ 30.2217, 20.0489,  
96.8847

■ 25.4800, 14.5876,  
96.0805

■ 22.0760, 10.8346,  
95.5355

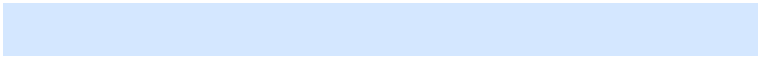
■ 19.8650, 8.5817,  
95.2172

■ 18.7483, 7.5800,  
95.0827

# Harmonies

## Analogous

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



74.1064, 78.4357, 108.1696



77.8795, 78.4357, 105.6427



80.8472, 78.4357, 97.5403

# Triad

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



77.8795, 78.4357, 105.6427



78.6763, 78.4357, 69.0300



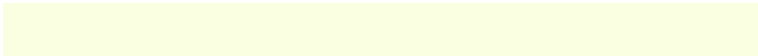
67.4565, 78.4357, 84.1341

# Complementary

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



77.8795, 78.4357, 105.6427



89.2729, 97.5211, 86.0735

# 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.



68.5900, 78.4357, 74.3170



77.8795, 78.4357, 105.6427



74.9970, 78.4357, 66.0787

# Square

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



77.8795, 78.4357, 105.6427



81.3182, 78.4357, 76.3487



71.3183, 78.4357, 67.9293



68.1696, 78.4357, 95.1466



# Rectangle

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



77.8795, 78.4357, 105.6427



81.9247, 78.4357, 90.3998



71.3183, 78.4357, 67.9293



67.6332, 78.4357, 80.5940

# Sweetspot

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



77.8816, 78.4389, 105.6432



90.2729, 93.9863, 107.9910



83.9547, 92.4677, 108.0309



19.0553, 19.7814, 23.0638



0.0000, 0.0000, 0.0000



20.3446, 21.4041, 23.3091



# Same Dimension

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



77.8816, 78.4389, 105.6432



74.2690, 73.9224, 104.9618



82.6840, 80.9146, 105.8679



17.2358, 17.4978, 22.7189



9.8669, 3.9970, 49.6860



1.0283, 0.4240, 4.8409



# Inverse Universe

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



85.8508, 82.6208, 102.6919



83.9175, 78.9868, 101.3302



84.2920, 94.9533, 85.8404



18.6786, 18.2548, 22.1907



28.3299, 13.8213, 36.7175



2.7868, 1.3571, 3.7247



# Previews

## White Background



This preview shows how the XYZ color 77.8795, 78.4357, 105.6427 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the XYZ color 77.8795, 78.4357, 105.6427 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

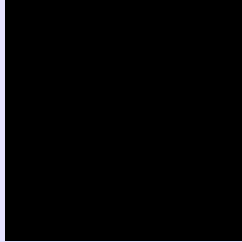
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

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

**XYZ 77.8795, 78.4357, 105.6427**

## **Background**



This preview shows how black text looks on a background with the XYZ color 77.8795, 78.4357, 105.6427.



This preview shows how white text looks on a background with the XYZ color 77.8795, 78.4357,



# 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

77.8795, 78.4357, 105.6427

### Protanopia

76.5704, 78.1657, 105.6595

### Deuteranopia

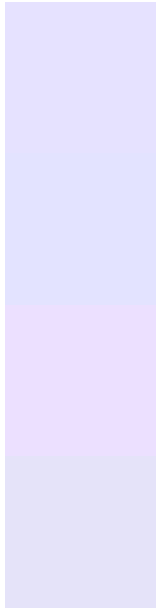
80.0343, 78.3461, 105.5118



## Tritanopia

76.3729, 78.6346, 98.3415

# Trichromacy



## Original Color

77.8795, 78.4357, 105.6427

## Protanomaly

77.1976, 78.4891, 105.6889

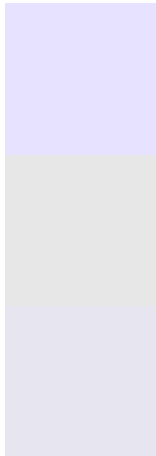
## Deuteranomaly

79.2977, 78.3642, 105.5541

## Tritanomaly

76.8811, 78.4357, 100.7101

# Monochromacy



## Original Color

77.8795, 78.4357, 105.6427

## Achromatopsia

75.9547, 79.9103, 87.0223

## Achromatomaly

76.7025, 79.3188, 93.7055

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 77.8795, 78.4357, 105.6427 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 rgb(230, 226, 255) looks like.

```
.text, #text, p{  
    color:rgb(230, 226, 255)  
}
```

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 rgb(230, 226, 255) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(230, 226, 255) }
```

## Border

The CSS property to change the border of an element to XYZ 77.8795, 78.4357, 105.6427 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 rgb(230, 226, 255) }
```



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

```
.border{ border-color:rgb(230, 226, 255) }
```

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

Here you see how a box with a 4 pixel rgb(230, 226, 255) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(230, 226, 255); -webkit-box-  
shadow:4px 4px 4px 4px rgb(230, 226, 255);  
box-shadow:4px 4px 4px 4px rgb(230, 226,  
255) }
```

# Background

The CSS property to change the background color of an element to XYZ 77.8795, 78.4357, 105.6427 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(230, 226, 255) }
```

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

```
.background{ background-color: rgb(230,  
226, 255) }
```

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](#).

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