

# Converting Colors

XYZ(83.4121, 82.2264,  
133.5196)

Have a look what the booklet for  
XYZ(83.4121, 82.2264, 133.5196)  
contains.

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# **Color**

**XYZ(78.3417, 80.3076,  
105.9796)**

# Conversions

## Conversions Part 1

Format	Color
Hex	E4E6FF
RGB	228, 230, 255
RGB Percent	89%, 90%, 100%
CMY	0.1059, 0.0980, 0.0000
CMYK	0.11, 0.10, 0.00, 0.00
HSL	236°, 100%, 95%
HSV	236°, 11%, 100%
XYZ	78.3417, 80.3076, 105.9796
YIQ	232.2520, -9.2170, 7.3510

# Conversions

## Conversions Part 2

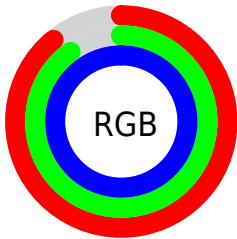
<b>Format</b>	<b>Color</b>
<b>R<sub>YB</sub></b>	228, 230, 255
Decimal	15001343
CIE <sub>Lab</sub>	91.82, 4.05, -12.31
CIE <sub>LCh</sub>	92, 12.954, 288.208
Yxy	80.3076, 0.2960, 0.3035
Android (android.graphics.Color)	4293191423 (0xFFE4E6FF)
YUV	232.2520, 11.2148, -3.7290
Hunter-Lab	89.6145, -0.7793, -7.3872

# Details

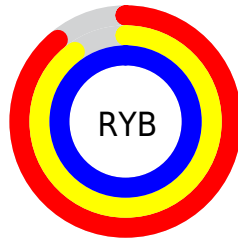
The XYZ color **78.3417, 80.3076, 105.9796** is a light color, and the websafe version is hex FFFFFFFF. A complement of this color would be **90.3682, 97.1101, 87.3815**, and the grayscale version is **76.8159, 80.8163, 88.0089**.

A 20% lighter version of the original color is **95.0500, 100.0000, 108.9000**, and **42.5363, 43.5078, 59.5820** is the 20% darker color. If you saturate the color by 10%, you get **64.7103, 64.1808, 103.5853**, and if you desaturate by 10%, it is **94.0603, 98.8354, 108.7274**.

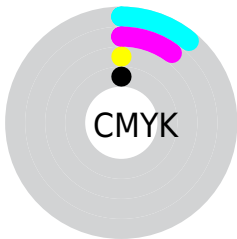
# Distribution



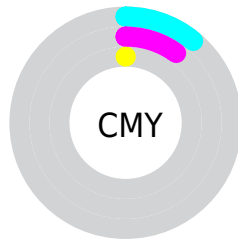
- Red (89%)
- Green (90%)
- Blue (100%)



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



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



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

# Brightness & Saturation Gradients

These gradients show how the XYZ color 78.3417, 80.3076, 105.9796 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 78.3417, 80.3076, 105.9796 by changing the saturation by 10% instead.



78.3417, 80.3076,  
105.9796

78.3417, 80.3076,  
105.9796

478.1486,  
495.9689, 600.6080

58.6585, 59.9715,  
80.6590

129.9945,  
133.7981, 171.4738

42.5836, 43.3957,  
59.7315

162.6948,  
167.7213, 212.4846

29.7516, 30.1957,  
42.7784

200.4649,  
206.9424, 259.5625

19.7973, 19.9872,  
29.3811

243.6700,  
251.8456, 313.1260

12.3552, 12.3857,  
19.1213

292.6756,  
302.8155, 373.5939

7.0600, 7.0069,  
11.5802

347.8470,

3.5463, 3.4664,

360.2364, 441.3844

6.3395

409.5495,  
424.4927, 516.9163

■ 1.4488, 1.3798,  
2.9805

■ 0.2906, 0.2018,  
1.0847

■ 78.3417, 80.3076,  
105.9796

■ 78.3417, 80.3076,  
105.9796

■ 64.7103, 64.1808,  
103.5853

94.0603, 98.8354,  
108.7274

■ 53.0720, 50.3475,  
101.5286

95.0500, 100.0000,  
108.9000

■ 43.3352, 38.7061,  
99.7948

■ 35.3987, 29.1441,  
98.3674

■ 29.1516, 21.5387,  
97.2287

■ 24.4709, 15.7542,  
96.3588

■ 21.2169, 11.6374,  
95.7357

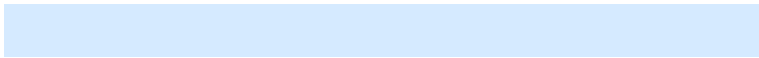
■ 19.2246, 9.0099,  
95.3336

■ 18.2815, 7.6830,  
95.1272

# Harmonies

## Analogous

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



75.0331, 80.3076, 106.5827



78.3417, 80.3076, 105.9796



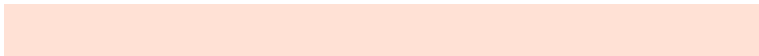
81.1881, 80.3076, 100.1973

# Triad

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



78.3417, 80.3076, 105.9796



80.6629, 80.3076, 74.5089



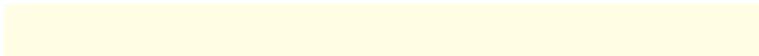
70.2511, 80.3076, 83.7588

# Complementary

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



78.3417, 80.3076, 105.9796



90.3682, 97.1101, 87.3815

# Split Complementary

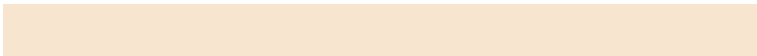
Split-complementary colors differ from the complementary color scheme. The scheme consists of three colors, the original color and two neighbors of the complement color.



71.6696, 80.3076, 75.8167



78.3417, 80.3076, 105.9796



77.6417, 80.3076, 70.7410

# Square

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



78.3417, 80.3076, 105.9796



82.5548, 80.3076, 81.8532



74.3530, 80.3076, 71.2017



70.4262, 80.3076, 93.2782



# Rectangle

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



78.3417, 80.3076, 105.9796



82.4110, 80.3076, 94.4042



74.3530, 80.3076, 71.2017



70.5557, 80.3076, 80.8296

# Sweetspot

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



78.3439, 80.3109, 105.9801



90.0734, 94.1420, 108.0316



85.4454, 95.0903, 106.5708



19.0017, 19.8232, 23.0747



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.



78.3439, 80.3109, 105.9801



74.8672, 76.2038, 105.3706



81.4755, 81.1024, 105.9679



17.1112, 17.5941, 22.7441



9.5911, 4.0918, 49.7189



0.9697, 0.4700, 4.8529



# Inverse Universe

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



83.2676, 82.4614, 86.3947



80.8180, 78.8215, 81.6959



86.9857, 96.3101, 87.4054



18.0640, 18.0089, 18.9544



21.6294, 11.1410, 1.4327

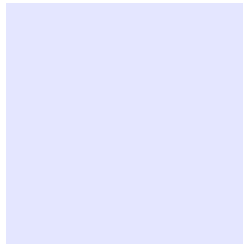


2.1240, 1.0920, 0.2347



# Previews

## White Background



This preview shows how the XYZ color 78.3417, 80.3076, 105.9796 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

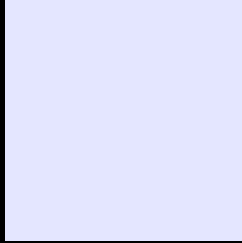
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the XYZ color 78.3417, 80.3076, 105.9796 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

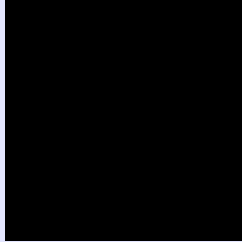
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

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

# XYZ 78.3417, 80.3076, 105.9796

## Background



This preview shows how black text looks on a background with the XYZ color 78.3417, 80.3076, 105.9796.



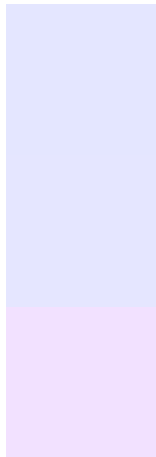
This preview shows how white text looks on a background with the XYZ color 78.3417, 80.3076,



# 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

78.3417, 80.3076, 105.9796

### Protanopia

78.6599, 80.4716, 105.9945

### Deuteranopia

81.5932, 79.9477, 105.7388



## Tritanopia

77.3534, 80.3223, 101.0493

# Trichromacy



## Original Color

78.3417, 80.3076, 105.9796

## Protanomaly

78.6599, 80.4716, 105.9945

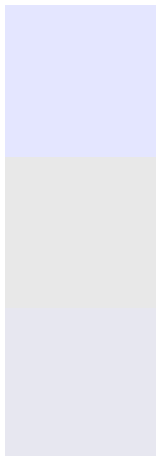
## Deuteranomaly

80.4441, 80.1627, 105.8408

## Tritanomaly

77.6671, 80.4478, 102.7013

# Monochromacy



## Original Color

78.3417, 80.3076, 105.9796

## Achromatopsia

76.7008, 80.6952, 87.8771

## Achromatomaly

77.2591, 80.4320, 93.8910

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 78.3417, 80.3076, 105.9796 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(228, 230, 255)` looks like.

```
.text, #text, p{  
    color:rgb(228, 230, 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(228, 230, 255) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(228, 230, 255) }
```

## Border

The CSS property to change the border of an element to XYZ 78.3417, 80.3076, 105.9796 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(228, 230, 255) }
```



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

```
.border{ border-color:rgb(228, 230, 255) }
```

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

Here you see how a box with a 4 pixel `rgb(228, 230, 255)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(228, 230, 255); -webkit-box-  
shadow:4px 4px 4px 4px rgb(228, 230, 255);  
box-shadow:4px 4px 4px 4px rgb(228, 230,  
255) }
```

# Background

The CSS property to change the background color of an element to XYZ 78.3417, 80.3076, 105.9796 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(228, 230, 255) }
```

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

```
.background{ background-color: rgb(228,  
230, 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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