

# Converting Colors

XYZ(78.9742, 77.5732,  
105.4185)

Have a look what the booklet for  
XYZ(78.9742, 77.5732, 105.4185)  
contains.

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# Color

**XYZ(78.7633, 77.2954,  
105.3760)**

# Conversions

## Conversions Part 1

Format	Color
Hex	ECDEFF
RGB	236, 222, 255
RGB Percent	93%, 87%, 100%
CMY	0.0745, 0.1294, 0.0000
CMYK	0.07, 0.13, 0.00, 0.00
HSL	265°, 100%, 94%
HSV	265°, 13%, 100%
XYZ	78.7633, 77.2954, 105.3760
YIQ	229.9480, -2.2490, 13.2310

# Conversions

## Conversions Part 2

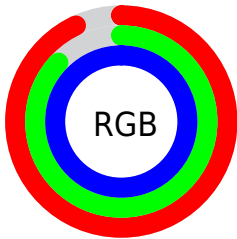
<b>Format</b>	<b>Color</b>
<a href="#">RYB</a>	<a href="#">236, 222, 255</a>
Decimal	<a href="#">15523583</a>
CIELab	<a href="#">90.46, 10.77, -14.28</a>
CIELCh	<a href="#">90, 17.889, 307.025</a>
Yxy	<a href="#">77.2954, 0.3013, 0.2957</a>
Android (android.graphics.Color)	<a href="#">4293713663</a> ( <a href="#">0xFFECDEFF</a> )
YUV	<a href="#">229.9480, 12.3506, 5.3076</a>
Hunter-Lab	<a href="#">87.9178, 6.0574, -9.5210</a>

# Details

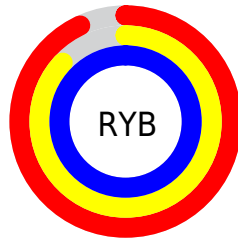
The XYZ color **78.7633, 77.2954, 105.3760** is a light color, and the websafe version is hex **CCCCFF**. A complement of this color would be **85.2224, 95.4956, 83.0518**, and the grayscale version is **75.0899, 79.0004, 86.0315**.

A 20% lighter version of the original color is **95.0500, 100.0000, 108.9000**, and **42.8341, 41.4179, 59.1629** is the 20% darker color. If you saturate the color by 10%, you get **67.8202, 62.3505, 103.0681**, and if you desaturate by 10%, it is **91.1357, 94.5017, 108.0450**.

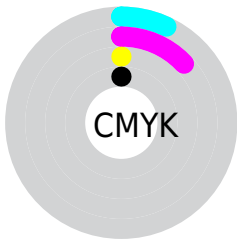
# Distribution



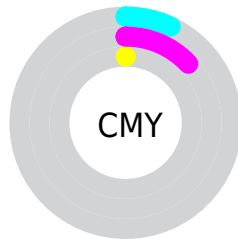
- Red (93%)
- Green (87%)
- Blue (100%)



- Red (93%)
- Yellow (87%)
- Blue (100%)



- Cyan (7%)
- Magenta (13%)
- Yellow (0%)
- Black (0%)



- Cyan (7%)
- Magenta (13%)
- Yellow (0%)

# Brightness & Saturation Gradients

These gradients show how the XYZ color 78.7633, 77.2954, 105.3760 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 78.7633, 77.2954, 105.3760 by changing the saturation by 10% instead.



78.7633, 77.2954,  
105.3760

78.7633, 77.2954,  
105.3760

479.5555,  
485.7706, 598.6878

59.0062, 57.4954,  
80.1560

130.5853,  
129.5564, 170.6417

42.8645, 41.4031,  
59.3198

163.3808,  
162.7861, 211.5245

29.9729, 28.6342,  
42.4489

201.2532,  
201.2612, 258.4652

19.9660, 18.8043,  
29.1248

244.5678,  
245.3660, 311.8825

12.4784, 11.5289,  
18.9288

293.6900,  
295.4850, 372.1949

7.1449, 6.4238,  
11.4426

348.9851,

3.6000, 3.1044,

352.0025, 439.8208

6.2474

410.8185,  
415.3029, 515.1790

■ 1.4784, 1.1865,  
2.9249

■ 0.3111, 0.0506,  
1.0564

■ 78.7633, 77.2954,  
105.3760

■ 78.7633, 77.2954,  
105.3760

■ 67.8202, 62.3505,  
103.0681

■ 91.1357, 94.5017,  
108.0450

■ 58.2445, 49.5609,  
101.1041

95.0500, 100.0000,  
108.9000

■ 49.9793, 38.8260,  
99.4677

■ 42.9603, 30.0332,  
98.1405

■ 37.1178, 23.0587,  
97.1022

■ 32.3740, 17.7640,  
96.3302

■ 28.6404, 13.9894,  
95.7984

■ 25.8111, 11.5422,  
95.4752

■ 24.2553, 10.4190,  
95.3404

# Harmonies

## Analogous

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



74.5228, 77.2954, 111.0231



78.7633, 77.2954, 105.3760



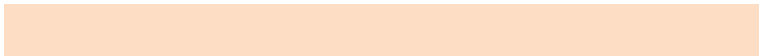
81.6650, 77.2954, 94.1367

# Triad

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



78.7633, 77.2954, 105.3760



76.8721, 77.2954, 63.4780



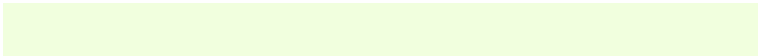
65.2649, 77.2954, 87.2071

# Complementary

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



78.7633, 77.2954, 105.3760



85.2224, 95.4956, 83.0518

# 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.



65.8368, 77.2954, 74.9172



78.7633, 77.2954, 105.3760



72.4211, 77.2954, 62.0249

# Square

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



78.7633, 77.2954, 105.3760



80.5425, 77.2954, 70.1964



68.4135, 77.2954, 66.0045



66.8184, 77.2954, 99.8659



# Rectangle

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



78.7633, 77.2954, 105.3760



82.3861, 77.2954, 85.4452



68.4135, 77.2954, 66.0045



65.2160, 77.2954, 82.8908

# Sweetspot

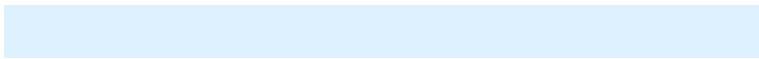
The Sweet Spot groups the original color and five complimentary colors.



78.7654, 77.2986, 105.3765



89.7541, 92.5669, 107.7444



79.7059, 85.8105, 106.9699



19.0035, 19.5229, 23.0167



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.



78.7654, 77.2986, 105.3765



75.2663, 72.4879, 104.6324



84.4083, 80.2076, 105.6406



17.7335, 17.7543, 22.7422



12.8359, 5.5276, 49.8250



1.3714, 0.6009, 4.8570



# Inverse Universe

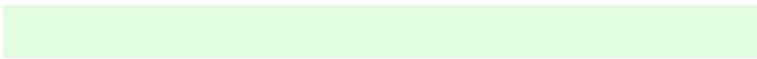
The Inverse Universe completely reimagines the original color for something new.



83.2404, 79.8565, 94.2484



80.7247, 75.6094, 90.9916



79.9205, 92.7624, 82.8037



18.4478, 18.1624, 20.9755



24.3698, 12.2372, 15.8640

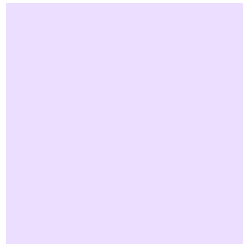


2.4275, 1.2134, 1.8325



# Previews

## White Background



This preview shows how the XYZ color 78.7633, 77.2954, 105.3760 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

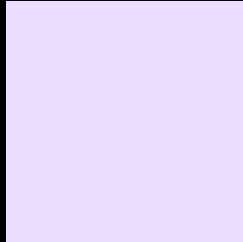
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the XYZ color 78.7633, 77.2954, 105.3760 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

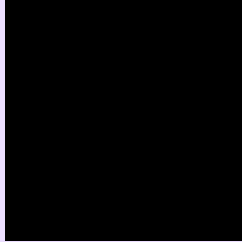
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

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

**XYZ 78.7633, 77.2954, 105.3760**

## **Background**



This preview shows how black text looks on a background with the XYZ color 78.7633, 77.2954, 105.3760.



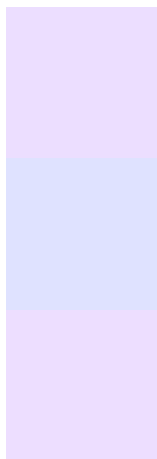
This preview shows how white text looks on a background with the XYZ color 78.7633, 77.2954,



# 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

78.7633, 77.2954, 105.3760

### Protanopia

75.6778, 77.3007, 105.5396

### Deuteranopia

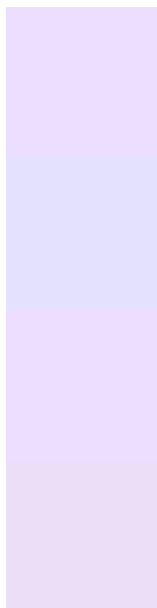
79.0963, 77.4671, 105.3916



## Tritanopia

76.6144, 77.2145, 94.8703

# Trichromacy



## Original Color

78.7633, 77.2954, 105.3760

## Protanomaly

76.9701, 77.5644, 105.5224

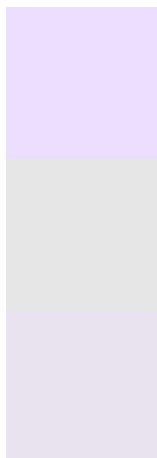
## Deuteranomaly

79.0963, 77.4671, 105.3916

## Tritanomaly

77.4371, 77.1529, 98.8063

# Monochromacy



## Original Color

78.7633, 77.2954, 105.3760

## Achromatopsia

75.2129, 79.1298, 86.1723

## Achromatomaly

76.3278, 78.3260, 92.7569

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 78.7633, 77.2954, 105.3760 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(236, 222, 255)` looks like.

```
.text, #text, p{  
    color:rgb(236, 222, 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(236, 222, 255) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(236, 222, 255) }
```

## Border

The CSS property to change the border of an element to XYZ 78.7633, 77.2954, 105.3760 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(236, 222, 255) }
```



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

```
.border{ border-color:rgb(236, 222, 255) }
```

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

Here you see how a box with a 4 pixel `rgb(236, 222, 255)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(236, 222, 255); -webkit-box-  
shadow:4px 4px 4px 4px rgb(236, 222, 255);  
box-shadow:4px 4px 4px 4px rgb(236, 222,  
255) }
```

# Background

The CSS property to change the background color of an element to XYZ 78.7633, 77.2954, 105.3760 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(236, 222, 255) }
```

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

```
.background{ background-color: rgb(236,  
222, 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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