

# Converting Colors

XYZ(87.0285, 87.3243,  
155.4114)

Have a look what the booklet for  
XYZ(87.0285, 87.3243, 155.4114)  
contains.

<b>XYZ(77.8299, 83.8584, 106.6920)</b> .....	3
<b><i>Conversions</i></b> .....	4
<b><i>Details</i></b> .....	6
<b><i>Harmonies</i></b> .....	12
<b><i>Previews</i></b> .....	24
<b><i>Color Blindness Simulation</i></b> .....	28
<b><i>CSS Examples</i></b> .....	31

# Color

**XYZ(77.8299, 83.8584,  
106.6920)**

# Conversions

## Conversions Part 1

Format	Color
Hex	DAEFFF
RGB	218, 239, 255
RGB Percent	85%, 94%, 100%
CMY	0.1451, 0.0627, 0.0000
CMYK	0.15, 0.06, 0.00, 0.00
HSL	206°, 100%, 93%
HSV	206°, 15%, 100%
XYZ	77.8299, 83.8584, 106.6920
YIQ	234.5450, -17.6520, 0.5240

# Conversions

## Conversions Part 2

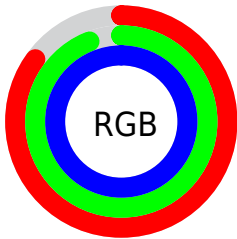
<b>Format</b>	<b>Color</b>
R <sub>Y</sub> B	218, 231, 255
Decimal	14348287
CIE Lab	93.39, -3.73, -10.05
CIE LCh	93, 10.717, 249.651
Yxy	83.8584, 0.2900, 0.3125
Android (android.graphics.Color)	4292538367 (0xFFDAEFFF)
YUV	234.5450, 10.0843, -14.5100
Hunter-Lab	91.5742, -8.5459, -4.9761

# Details

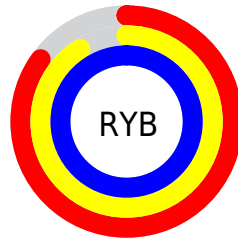
The XYZ color **77.8299, 83.8584, 106.6920** is a light color, and the websafe version is hex FFFFFFFF. A complement of this color would be **83.3172, 85.1661, 78.3786**, and the grayscale version is **78.5571, 82.6482, 90.0039**.

A 20% lighter version of the original color is **95.0500, 100.0000, 108.9000**, and **42.2308, 45.7307, 60.0272** is the 20% darker color. If you saturate the color by 10%, you get **67.6538, 73.9685, 105.3193**, and if you desaturate by 10%, it is **89.3804, 94.7536, 108.1862**.

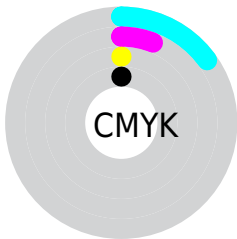
# Distribution



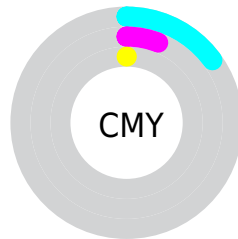
- Red (85%)
- Green (94%)
- Blue (100%)



- Red (85%)
- Yellow (91%)
- Blue (100%)



- Cyan (15%)
- Magenta (6%)
- Yellow (0%)
- Black (0%)



- Cyan (15%)
- Magenta (6%)
- Yellow (0%)

# Brightness & Saturation Gradients

These gradients show how the XYZ color 77.8299, 83.8584, 106.6920 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 77.8299, 83.8584, 106.6920 by changing the saturation by 10% instead.



77.8299, 83.8584,  
106.6920

77.8299, 83.8584,  
106.6920

476.4376,  
507.8429, 602.8703

58.2366, 62.8985,  
81.2530

129.2769,  
138.7771, 172.4553

42.2429, 45.7591,  
60.2178

161.8614,  
173.5047, 213.6168

29.4834, 32.0558,  
43.1678

199.5068,  
213.5903, 260.8561

19.5930, 21.4041,  
29.6844

242.5787,  
259.4184, 314.5919

12.2060, 13.4197,  
19.3491

291.4424,  
311.3733, 375.2427

6.9574, 7.7182,  
11.7435

346.4632,

3.4815, 3.9152,

369.8394, 443.2270

6.4488

408.0065,  
435.2012, 518.9633

■ 1.4132, 1.6262,  
3.0467

■ 0.2656, 0.3752,  
1.1185

■ 77.8299, 83.8584,  
106.6920

■ 77.8299, 83.8584,  
106.6920

■ 67.6538, 73.9685,  
105.3193

■ 89.3804, 94.7536,  
108.1862

■ 58.7885, 65.0392,  
104.0631

95.0500, 100.0000,  
108.9000

■ 51.1752, 57.0370,  
102.9198

■ 44.7474, 49.9224,  
101.8853

■ 39.4319, 43.6519,  
100.9551

■ 35.1469, 38.1774,  
100.1243

■ 31.7973, 33.4441,  
99.3872

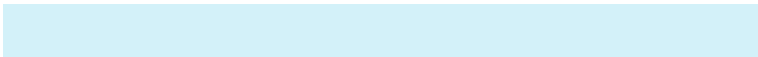
■ 29.2675, 29.3861,  
98.7373

■ 28.1385, 27.3970,  
98.4128

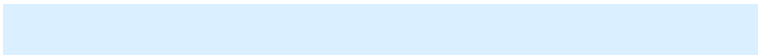
# Harmonies

## Analogous

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



75.5932, 83.8584, 101.6038



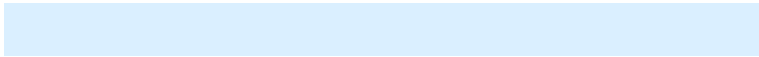
77.8299, 83.8584, 106.6920



80.6194, 83.8584, 107.5275

# Triad

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



77.8299, 83.8584, 106.6920



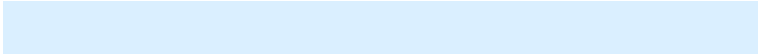
85.1836, 83.8584, 88.7231



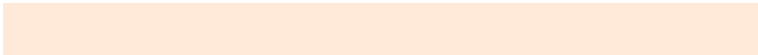
76.2870, 83.8584, 79.8402

# Complementary

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



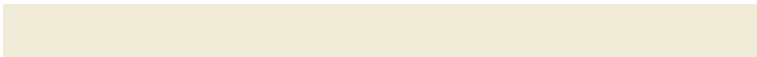
77.8299, 83.8584, 106.6920



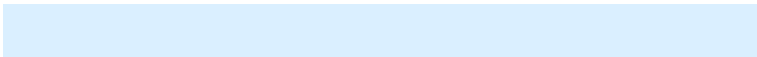
83.3172, 85.1661, 78.3786

# Split Complementary

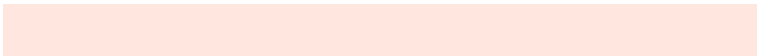
Split-complementary colors differ from the complementary color scheme. The scheme consists of three colors, the original color and two neighbors of the complement color.



78.7973, 83.8584, 76.8067



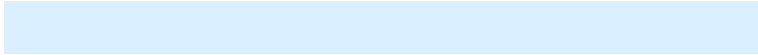
77.8299, 83.8584, 106.6920



83.9630, 83.8584, 81.7315

# Square

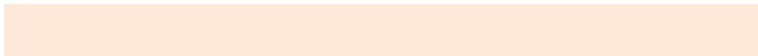
The Square scheme is like the rectangle color scheme, but the four colors are evenly spaced on the color wheel.



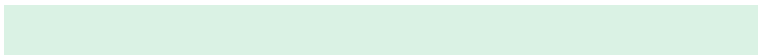
77.8299, 83.8584, 106.6920



84.9098, 83.8584, 96.8277



81.6098, 83.8584, 77.4780

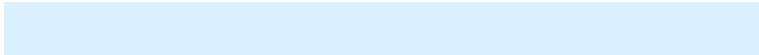


74.7172, 83.8584, 86.0013



# Rectangle

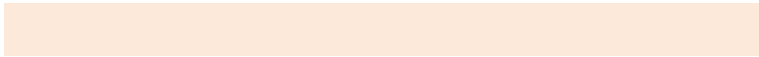
The Rectangle color scheme consists of four colors that form a rectangle on the color wheel.



77.8299, 83.8584, 106.6920



82.4238, 83.8584, 105.5130



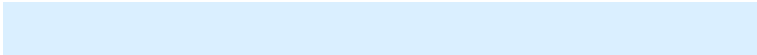
81.6098, 83.8584, 77.4780



77.0464, 83.8584, 78.4380

# Sweetspot

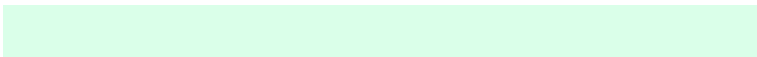
The Sweet Spot groups the original color and five complimentary colors.



77.8321, 83.8618, 106.6925



90.0058, 95.3352, 108.2655



79.4419, 92.3329, 91.0392



19.0674, 20.2218, 23.1482



0.0000, 0.0000, 0.0000

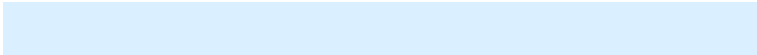


20.3446, 21.4041, 23.3091

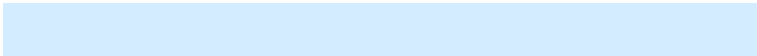


# Same Dimension

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



77.8321, 83.8618, 106.6925



75.1706, 81.3052, 106.3393



72.8431, 73.8838, 105.0295



17.8589, 19.0894, 22.9933



14.8543, 14.6181, 51.4733



1.5549, 1.6406, 5.0480



# Inverse Universe

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



81.8927, 77.6363, 92.3344



79.8741, 74.2434, 89.6748



88.6795, 95.8907, 80.1660



18.4414, 18.1599, 20.9417



24.2859, 12.2037, 15.4221

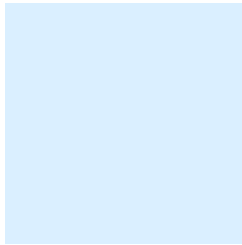


2.4195, 1.2102, 1.7904



# Previews

## White Background



This preview shows how the XYZ color 77.8299, 83.8584, 106.6920 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

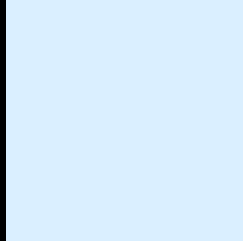
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the XYZ color 77.8299, 83.8584, 106.6920 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

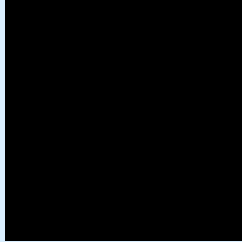
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

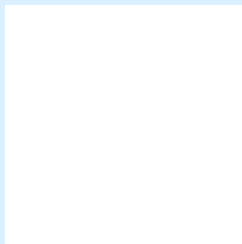
If you want to check with other color combinations, try the [Color Contrast Checker](#).

# XYZ 77.8299, 83.8584, 106.6920

## Background



This preview shows how black text looks on a background with the XYZ color 77.8299, 83.8584, 106.6920.



This preview shows how white text looks on a background with the XYZ color 77.8299, 83.8584,

106.6920.

# 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

77.8299, 83.8584, 106.6920

### Protanopia

81.2545, 83.5361, 103.9370

### Deuteranopia

85.0582, 83.7701, 106.2939



## **Tritanopia**

78.4433, 83.7412, 106.6370

# Trichromacy



## Original Color

77.8299, 83.8584, 106.6920

## Protanomaly

80.0382, 83.7408, 104.8736

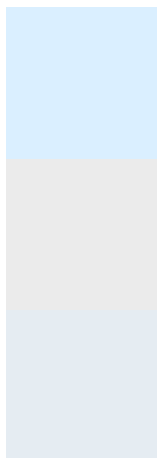
## Deuteranomaly

82.1140, 83.5024, 106.3974

## Tritanomaly

78.1397, 83.5847, 106.6228

# Monochromacy



## Original Color

77.8299, 83.8584, 106.6920

## Achromatopsia

78.9647, 83.0770, 90.4708

## Achromatomaly

78.3356, 83.0597, 95.9078

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 77.8299, 83.8584, 106.6920 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(218, 239, 255)` looks like.

```
.text, #text, p{  
    color:rgb(218, 239, 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(218, 239, 255) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(218, 239, 255) }
```

## Border

The CSS property to change the border of an element to XYZ 77.8299, 83.8584, 106.6920 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".

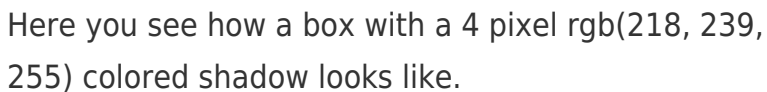
```
.border, #border, table{ border:4px solid rgb(218, 239, 255) }
```



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

```
.border{ border-color:rgb(218, 239, 255) }
```

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



Here you see how a box with a 4 pixel `rgb(218, 239, 255)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(218, 239, 255); -webkit-box-  
shadow:4px 4px 4px 4px rgb(218, 239, 255);  
box-shadow:4px 4px 4px 4px rgb(218, 239,  
255) }
```

# Background

The CSS property to change the background color of an element to XYZ 77.8299, 83.8584, 106.6920 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(218, 239, 255) }
```

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

```
.background{ background-color: rgb(218,  
239, 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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