

# Converting Colors

XYZ(83.9146, 90.1113,  
112.3520)

Have a look what the booklet for  
XYZ(83.9146, 90.1113, 112.3520)  
contains.

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# **Color**

**XYZ(83.0007, 89.6255,  
107.5326)**

# Conversions

## Conversions Part 1

Format	Color
Hex	E4F6FF
RGB	228, 246, 255
RGB Percent	89%, 96%, 100%
CMY	0.1059, 0.0353, 0.0000
CMYK	0.11, 0.04, 0.00, 0.00
HSL	200°, 100%, 95%
HSV	200°, 11%, 100%
XYZ	83.0007, 89.6255, 107.5326
YIQ	241.6440, -13.6170, -1.0170

# Conversions

## Conversions Part 2

<b>Format</b>	<b>Color</b>
R <sub>Y</sub> B	228, 239, 255
Decimal	15005439
CIE Lab	95.84, -4.16, -6.34
CIE LCh	96, 7.582, 236.738
Yxy	89.6255, 0.2963, 0.3199
Android (android.graphics.Color)	4293195519 (0xFFE4F6FF)
YUV	241.6440, 6.5845, -11.9658
Hunter-Lab	94.6707, -9.1775, -1.0755

# Details

The XYZ color **83.0007, 89.6255, 107.5326** is a light color, and the websafe version is hex FFFFFFFF. A complement of this color would be **85.5272, 87.4282, 85.7680**, and the grayscale version is **84.0761, 88.4546, 96.3271**.

A 20% lighter version of the original color is **95.0500, 100.0000, 108.9000**, and **45.6198, 49.6748, 60.6099** is the 20% darker color. If you saturate the color by 10%, you get **72.9752, 80.7107, 106.3403**, and if you desaturate by 10%, it is **94.3422, 99.3991, 108.8213**.

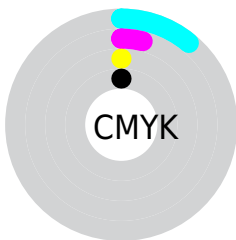
# Distribution



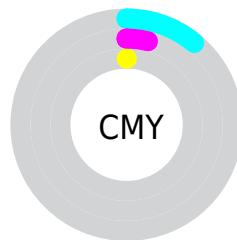
- Red (89%)
- Green (96%)
- Blue (100%)



- Red (89%)
- Yellow (94%)
- Blue (100%)



- Cyan (11%)
- Magenta (4%)
- Yellow (0%)
- Black (0%)



- Cyan (11%)
- Magenta (4%)
- Yellow (0%)

# Brightness & Saturation Gradients

These gradients show how the XYZ color 83.0007, 89.6255, 107.5326 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 83.0007, 89.6255, 107.5326 by changing the saturation by 10% instead.



83.0007, 89.6255,  
107.5326

83.0007, 89.6255,  
107.5326

493.5727,  
526.8119, 605.5340

62.5076, 67.6701,  
81.9542

136.5050,  
146.8181, 173.6127

45.7002, 49.6294,  
60.7922

170.2469,  
182.8240, 214.9514

32.2129, 35.1190,  
43.6280

209.1358,  
224.2823, 262.3807

21.6805, 23.7546,  
30.0431

253.5371,  
271.5772, 316.3190

13.7376, 15.1517,  
19.6190

303.8160,  
325.0933, 377.1850

8.0189, 8.9259,  
11.9371

360.3381,

4.1589, 4.6929,

385.2148, 445.3971

6.5788

423.4685,  
452.3262, 521.3740

■ 1.7924, 2.0682,  
3.1257

■ 0.5131, 0.6467,  
1.1592

■ 83.0007, 89.6255,  
107.5326

■ 83.0007, 89.6255,  
107.5326

■ 72.9752, 80.7107,  
106.3403

94.3422, 99.3991,  
108.8213

■ 64.2052, 72.6138,  
105.2396

95.0500, 100.0000,  
108.9000

■ 56.6354, 65.3064,  
104.2281

■ 50.2037, 58.7541,  
103.3024

■ 44.8419, 52.9193,  
102.4588

■ 40.4740, 47.7602,  
101.6932

■ 37.0130, 43.2295,  
101.0011

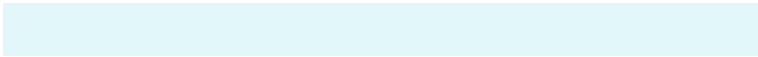
■ 34.3551, 39.2709,  
100.3771

■ 32.4328, 35.9857,  
99.8443

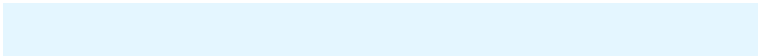
# Harmonies

## Analogous

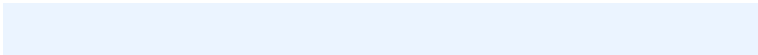
The Analogous color harmony consists of three colors that are next to each other on the color wheel.



81.6468, 89.6255, 102.8583



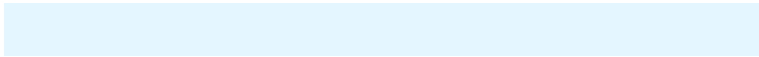
83.0007, 89.6255, 107.5326



84.9578, 89.6255, 109.5371

# Triad

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



83.0007, 89.6255, 107.5326



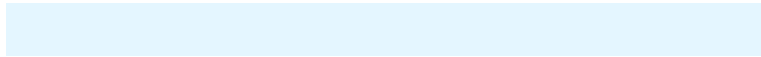
89.2627, 89.6255, 98.2435



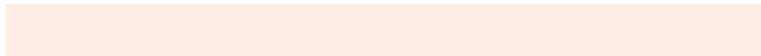
83.3907, 89.6255, 87.6629

# Complementary

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



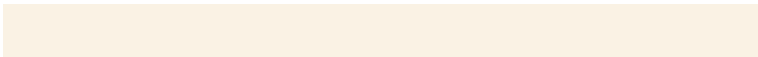
83.0007, 89.6255, 107.5326



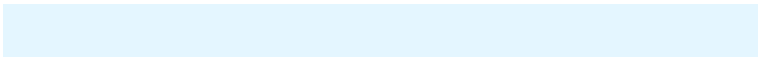
85.5272, 87.4282, 85.7680

# Split Complementary

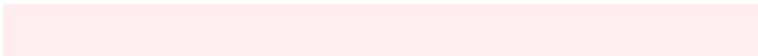
Split-complementary colors differ from the complementary color scheme. The scheme consists of three colors, the original color and two neighbors of the complement color.



85.4153, 89.6255, 86.5392



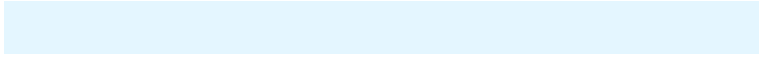
83.0007, 89.6255, 107.5326



88.8268, 89.6255, 92.4988

# Square

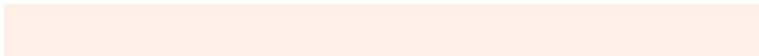
The Square scheme is like the rectangle color scheme, but the four colors are evenly spaced on the color wheel.



83.0007, 89.6255, 107.5326



88.5918, 89.6255, 104.0379



87.4100, 89.6255, 88.2742

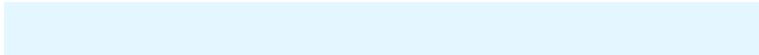


81.8693, 89.6255, 91.4083



# Rectangle

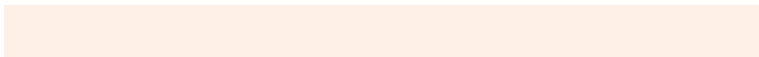
The Rectangle color scheme consists of four colors that form a rectangle on the color wheel.



83.0007, 89.6255, 107.5326



86.3492, 89.6255, 109.0312



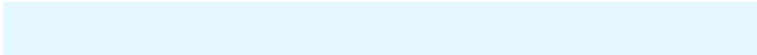
87.4100, 89.6255, 88.2742



84.0340, 89.6255, 86.9729

# Sweetspot

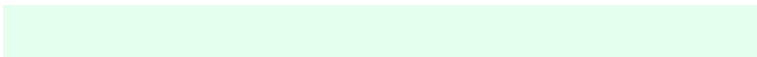
The Sweet Spot groups the original color and five complimentary colors.



83.0030, 89.6291, 107.5332



91.4836, 96.9625, 108.5017



82.9762, 94.1026, 93.5680



19.3817, 20.5830, 23.2014



0.0000, 0.0000, 0.0000

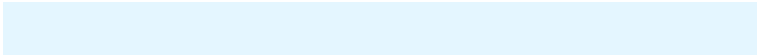


20.3446, 21.4041, 23.3091

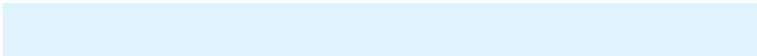


# Same Dimension

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



83.0030, 89.6291, 107.5332



80.4656, 87.4006, 107.2368



79.1709, 81.9649, 106.2558



18.0151, 19.4019, 23.0454



17.0898, 19.0893, 52.2184



1.7645, 2.0597, 5.1178



# Inverse Universe

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



85.6194, 83.4022, 98.7787



83.6438, 79.9519, 96.5764



89.4452, 95.2641, 87.0740



18.5203, 18.1914, 21.3569



25.4144, 12.6550, 21.3643

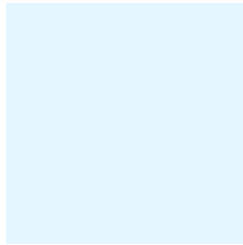


2.5253, 1.2525, 2.3474



# Previews

## White Background



This preview shows how the XYZ color 83.0007, 89.6255, 107.5326 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

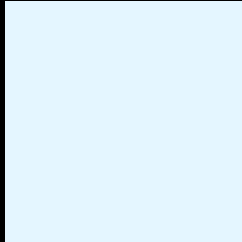
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the XYZ color 83.0007, 89.6255, 107.5326 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

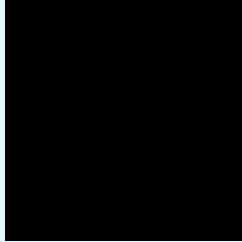
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

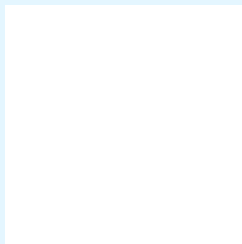
If you want to check with other color combinations, try the [Color Contrast Checker](#).

# XYZ 83.0007, 89.6255, 107.5326

## Background



This preview shows how black text looks on a background with the XYZ color 83.0007, 89.6255, 107.5326.



This preview shows how white text looks on a background with the XYZ color 83.0007, 89.6255,



# 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

83.0007, 89.6255, 107.5326

### Protanopia

86.3342, 89.1720, 104.7571

### Deuteranopia

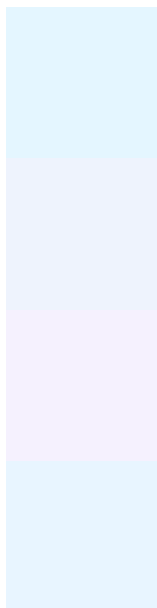
89.5442, 89.5009, 105.4844



## Tritanopia

84.6616, 89.5835, 107.4369

# Trichromacy



## Original Color

83.0007, 89.6255, 107.5326

## Protanomaly

85.0401, 89.3702, 105.6966

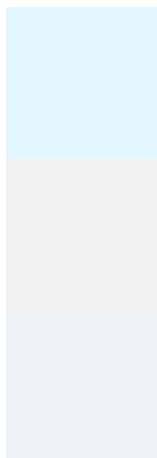
## Deuteranomaly

87.0009, 89.4788, 106.4516

## Tritanomaly

83.9811, 89.6806, 107.4916

# Monochromacy



## Original Color

83.0007, 89.6255, 107.5326

## Achromatopsia

84.3971, 88.7923, 96.6948

## Achromatomaly

83.7641, 88.8211, 100.7250

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 83.0007, 89.6255, 107.5326 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, 246, 255)` looks like.

```
.text, #text, p{  
    color:rgb(228, 246, 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, 246, 255) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(228, 246, 255) }
```

## Border

The CSS property to change the border of an element to XYZ 83.0007, 89.6255, 107.5326 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, 246, 255) }
```



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

```
.border{ border-color:rgb(228, 246, 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, 246, 255)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(228, 246, 255); -webkit-box-  
shadow:4px 4px 4px 4px rgb(228, 246, 255);  
box-shadow:4px 4px 4px 4px rgb(228, 246,  
255) }
```

# Background

The CSS property to change the background color of an element to XYZ 83.0007, 89.6255, 107.5326 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(228, 246, 255) }
```

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

```
.background{ background-color: rgb(228,  
246, 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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