

# Converting Colors

XYZ(83.9581, 87.5454,  
117.9320)

Have a look what the booklet for  
XYZ(83.9581, 87.5454, 117.9320)  
contains.

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# Color

**XYZ(81.8184, 86.7886,  
107.0473)**

# Conversions

## Conversions Part 1

Format	Color
Hex	E5F1FF
RGB	229, 241, 255
RGB Percent	90%, 95%, 100%
CMY	0.1020, 0.0549, 0.0000
CMYK	0.10, 0.05, 0.00, 0.00
HSL	212°, 100%, 95%
HSV	212°, 10%, 100%
XYZ	81.8184, 86.7886, 107.0473
YIQ	239.0080, -11.6460, 1.8100

# Conversions

## Conversions Part 2

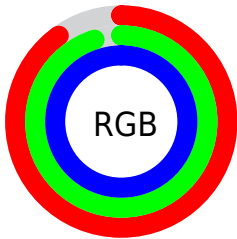
<b>Format</b>	<b>Color</b>
R <sub>Y</sub> B	229, 237, 255
Decimal	15069695
CIE Lab	94.65, -1.30, -8.10
CIE LCh	95, 8.200, 260.893
Yxy	86.7886, 0.2968, 0.3148
Android (android.graphics.Color)	4293259775 (0xFFE5F1FF)
YUV	239.0080, 7.8841, -8.7770
Hunter-Lab	93.1604, -6.2625, -2.9157

# Details

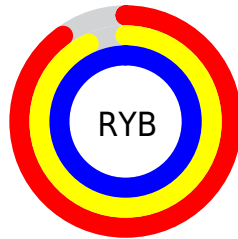
The XYZ color **81.8184, 86.7886, 107.0473** is a light color, and the websafe version is hex FFFFFFFF. A complement of this color would be **87.4328, 91.0166, 87.0901**, and the grayscale version is **81.9994, 86.2697, 93.9477**.

A 20% lighter version of the original color is **95.0500, 100.0000, 108.9000**, and **44.7756, 47.6594, 60.2653** is the 20% darker color. If you saturate the color by 10%, you get **70.3610, 75.0779, 105.3908**, and if you desaturate by 10%, it is **94.7817, 99.7349, 108.8630**.

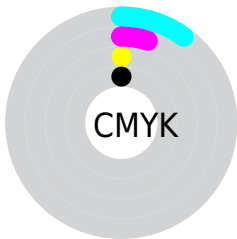
# Distribution



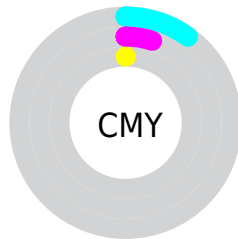
- Red (90%)
- Green (95%)
- Blue (100%)



- Red (90%)
- Yellow (93%)
- Blue (100%)



- Cyan (10%)
- Magenta (5%)
- Yellow (0%)
- Black (0%)



- Cyan (10%)
- Magenta (5%)
- Yellow (0%)

# Brightness & Saturation Gradients

These gradients show how the XYZ color 81.8184, 86.7886, 107.0473 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 81.8184, 86.7886, 107.0473 by changing the saturation by 10% instead.



81.8184, 86.7886,  
107.0473

81.8184, 86.7886,  
107.0473

489.6838,  
517.5280, 603.9969

61.5295, 65.3203,  
81.5494

134.8565,  
142.8694, 172.9446

44.9068, 47.7208,  
60.4605

168.3363,  
178.2508, 214.1811

31.5850, 33.6059,  
43.3622

206.9438,  
219.0385, 261.5008

21.1987, 22.5910,  
29.8359

251.0443,  
265.6171, 315.3223

13.3826, 14.2918,  
19.4631

301.0032,  
318.3710, 376.0641

7.7713, 8.3239,  
11.8252

357.1858,

3.9996, 4.3029,

377.6845, 444.1448

6.5037

419.9576,  
443.9420, 519.9829

■ 1.7019, 1.8444,  
3.0800

■ 0.4574, 0.5146,  
1.1356

■ 81.8184, 86.7886,  
107.0473

■ 81.8184, 86.7886,  
107.0473

■ 70.3610, 75.0779,  
105.3908

94.7817, 99.7349,  
108.8630

■ 60.3439, 64.5519,  
103.8870

95.0500, 100.0000,  
108.9000

■ 51.7069, 55.1716,  
102.5317

■ 44.3824, 46.8916,  
101.3195

■ 38.2966, 39.6626,  
100.2449

■ 33.3679, 33.4310,  
99.3019

■ 29.5032, 28.1369,  
98.4837

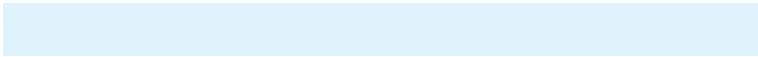
■ 26.5931, 23.7109,  
97.7828

■ 24.4971, 20.1141,  
97.1990

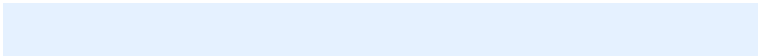
# Harmonies

## Analogous

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



79.8353, 86.7886, 104.2722



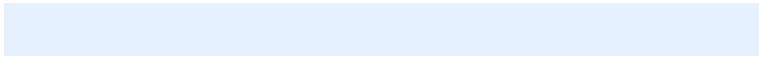
81.8184, 86.7886, 107.0473



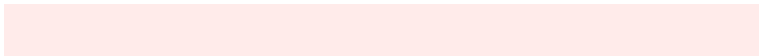
84.0166, 86.7886, 106.3451

# Triad

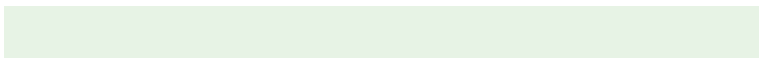
The Triadic color harmony groups three colors that are evenly spaced from another and form a triangle on the color wheel.



81.8184, 86.7886, 107.0473



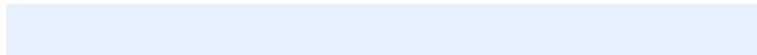
86.5290, 86.7886, 90.2188



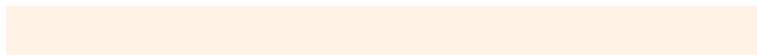
79.2323, 86.7886, 87.0186

# Complementary

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



81.8184, 86.7886, 107.0473



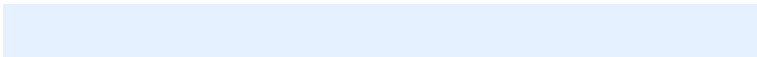
87.4328, 91.0166, 87.0901

# Split Complementary

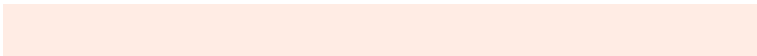
Split-complementary colors differ from the complementary color scheme. The scheme consists of three colors, the original color and two neighbors of the complement color.



80.9819, 86.7886, 83.5652



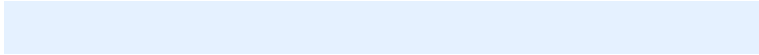
81.8184, 86.7886, 107.0473



85.2029, 86.7886, 85.3546

# Square

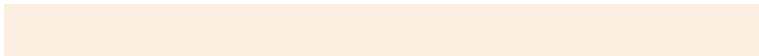
The Square scheme is like the rectangle color scheme, but the four colors are evenly spaced on the color wheel.



81.8184, 86.7886, 107.0473



86.7627, 86.7886, 96.4397



83.1652, 86.7886, 82.9700

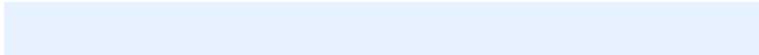


78.3598, 86.7886, 92.5826



# Rectangle

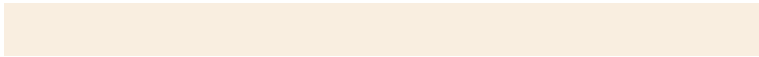
The Rectangle color scheme consists of four colors that form a rectangle on the color wheel.



81.8184, 86.7886, 107.0473



85.3068, 86.7886, 104.0116



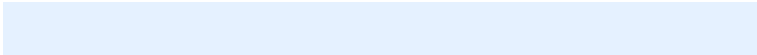
83.1652, 86.7886, 82.9700



79.7359, 86.7886, 85.5831

# Sweetspot

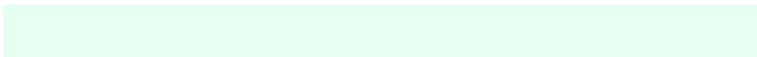
The Sweet Spot groups the original color and five complimentary colors.



81.8207, 86.7921, 107.0479



90.9917, 95.9785, 108.3377



84.2315, 94.6414, 98.5175



19.2488, 20.3174, 23.1571



0.0000, 0.0000, 0.0000

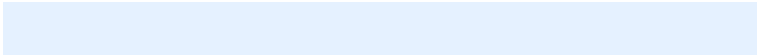


20.3446, 21.4041, 23.3091

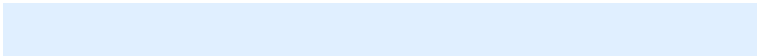


# Same Dimension

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



81.8207, 86.7921, 107.0479



79.6431, 84.5883, 106.7373



78.6610, 80.0611, 105.9152



17.6941, 18.7599, 22.9384



12.9459, 10.8014, 50.8371



1.3684, 1.2674, 4.9858



# Inverse Universe

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



85.1379, 83.6510, 94.8823



83.5136, 80.9907, 92.5273



90.8251, 98.2733, 88.3120



18.3583, 18.1266, 20.5038



23.3227, 11.8184, 10.3497

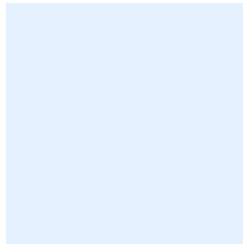


2.3253, 1.1725, 1.2944



# Previews

## White Background



This preview shows how the XYZ color 81.8184, 86.7886, 107.0473 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

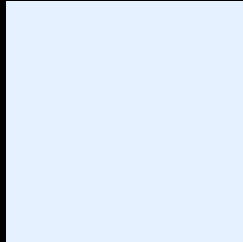
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the XYZ color 81.8184, 86.7886, 107.0473 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

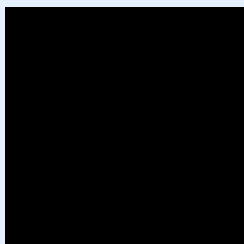
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

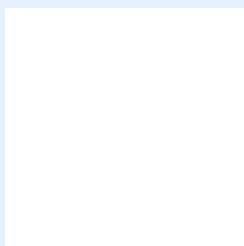
If you want to check with other color combinations, try the [Color Contrast Checker](#).

**XYZ 81.8184, 86.7886, 107.0473**

## **Background**



This preview shows how black text looks on a background with the XYZ color 81.8184, 86.7886, 107.0473.



This preview shows how white text looks on a background with the XYZ color 81.8184, 86.7886,



# 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

81.8184, 86.7886, 107.0473

### Protanopia

84.2393, 86.7662, 105.2362

### Deuteranopia

87.6969, 86.3805, 106.6587



## Tritanopia

82.4888, 86.6960, 106.9941

# Trichromacy



## Original Color

81.8184, 86.7886, 107.0473

## Protanomaly

83.3480, 86.7216, 106.1120

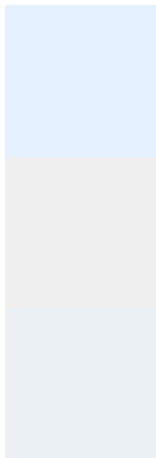
## Deuteranomaly

85.3537, 86.4440, 106.7945

## Tritanomaly

82.1651, 86.5291, 106.9790

# Monochromacy



## Original Color

81.8184, 86.7886, 107.0473

## Achromatopsia

82.0431, 86.3157, 93.9978

## Achromatomaly

81.9025, 86.5749, 98.7801

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 81.8184, 86.7886, 107.0473 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(229, 241, 255)` looks like.

```
.text, #text, p{  
    color:rgb(229, 241, 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(229, 241, 255) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(229, 241, 255) }
```

## Border

The CSS property to change the border of an element to XYZ 81.8184, 86.7886, 107.0473 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(229, 241, 255) }
```



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

```
.border{ border-color:rgb(229, 241, 255) }
```

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

Here you see how a box with a 4 pixel `rgb(229, 241, 255)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(229, 241, 255); -webkit-box-  
shadow:4px 4px 4px 4px rgb(229, 241, 255);  
box-shadow:4px 4px 4px 4px rgb(229, 241,  
255) }
```

# Background

The CSS property to change the background color of an element to XYZ 81.8184, 86.7886, 107.0473 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(229, 241, 255) }
```

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

```
.background{ background-color: rgb(229,  
241, 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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