

# Converting Colors

XYZ(77.8520, 82.1051,  
106.3524)

Have a look what the booklet for  
XYZ(77.8520, 82.1051, 106.3524)  
contains.

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# Color

**XYZ(77.8825, 82.1663,  
106.3626)**

# Conversions

## Conversions Part 1

Format	Color
Hex	DEEBFF
RGB	222, 235, 255
RGB Percent	87%, 92%, 100%
CMY	0.1294, 0.0784, 0.0000
CMYK	0.13, 0.08, 0.00, 0.00
HSL	216°, 100%, 94%
HSV	216°, 13%, 100%
XYZ	77.8825, 82.1663, 106.3626
YIQ	233.3930, -14.1680, 3.4640

# Conversions

## Conversions Part 2

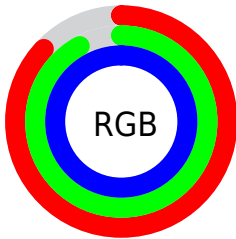
Format	Color
R <sub>Y</sub> B	222, 231, 255
Decimal	14609407
CIE Lab	92.65, -0.43, -11.12
CIE LCh	93, 11.129, 267.794
Yxy	82.1663, 0.2923, 0.3084
Android (android.graphics.Color)	4292799487 (0xFFDEEBFF)
YUV	233.3930, 10.6523, -9.9917
Hunter-Lab	90.6456, -5.2631, -6.1183

# Details

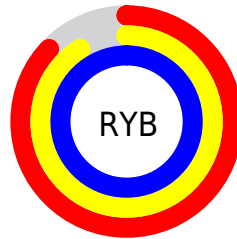
The XYZ color **77.8825, 82.1663, 106.3626** is a light color, and the websafe version is hex FFFFFFFF. A complement of this color would be **86.1763, 90.0364, 81.9455**, and the grayscale version is **77.6799, 81.7253, 88.9989**.

A 20% lighter version of the original color is **95.0500, 100.0000, 108.9000**, and **42.2495, 44.5329, 59.7950** is the 20% darker color. If you saturate the color by 10%, you get **66.4220, 69.9757, 104.6136**, and if you desaturate by 10%, it is **90.9128, 95.7410, 108.2960**.

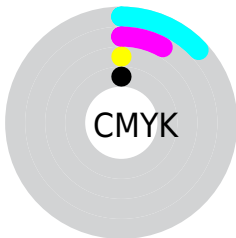
# Distribution



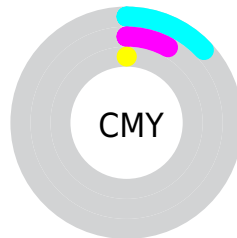
- Red (87%)
- Green (92%)
- Blue (100%)



- Red (87%)
- Yellow (91%)
- Blue (100%)



- Cyan (13%)
- Magenta (8%)
- Yellow (0%)
- Black (0%)



- Cyan (13%)
- Magenta (8%)
- Yellow (0%)

# Brightness & Saturation Gradients

These gradients show how the XYZ color 77.8825, 82.1663, 106.3626 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 77.8825, 82.1663, 106.3626 by changing the saturation by 10% instead.



■ 77.8825, 82.1663,  
106.3626

■ 77.8825, 82.1663,  
106.3626

476.6136,  
502.2038, 601.8248

■ 58.2799, 61.5026,  
80.9783

129.3507,  
136.4072, 172.0016

■ 42.2779, 44.6309,  
59.9929

161.9470,  
170.7532, 213.0934

■ 29.5110, 31.1668,  
42.9876

199.6053,  
210.4287, 260.2581

■ 19.6139, 20.7259,  
29.5441

242.6909,  
255.8183, 313.9144

■ 12.2213, 12.9238,  
19.2437

291.5692,  
307.3061, 374.4806

■ 6.9679, 7.3761,  
11.6679

346.6055,

■ 3.4882, 3.6984,

365.2767, 442.3754

6.3982

408.1652,  
430.1145, 518.0173

■ 1.4169, 1.5063,  
3.0160

■ 0.2682, 0.2932,  
1.1028

■ 77.8825, 82.1663,  
106.3626

■ 77.8825, 82.1663,  
106.3626

■ 66.4220, 69.9757,  
104.6136

■ 90.9128, 95.7410,  
108.2960

■ 56.4623, 59.1126,  
103.0417

95.0500, 100.0000,  
108.9000

■ 47.9384, 49.5307,  
101.6415

■ 40.7779, 41.1770,  
100.4065

■ 34.9017, 33.9942,  
99.3298

■ 30.2216, 27.9198,  
98.4039

■ 26.6369, 22.8834,  
97.6208

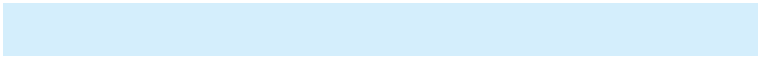
■ 24.0270, 18.8037,  
96.9709

■ 22.6539, 16.4278,  
96.5846

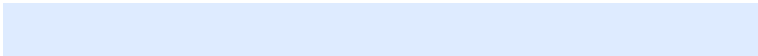
# Harmonies

## Analogous

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



75.1668, 82.1663, 103.6461



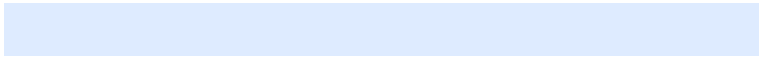
77.8825, 82.1663, 106.3626



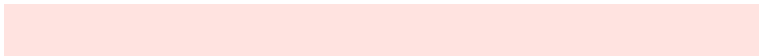
80.7215, 82.1663, 104.3246

# Triad

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



77.8825, 82.1663, 106.3626



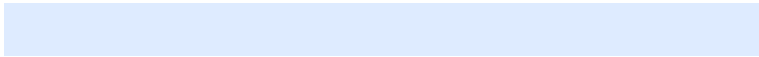
83.1260, 82.1663, 82.2342



73.4799, 82.1663, 81.2334

# Complementary

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



77.8825, 82.1663, 106.3626



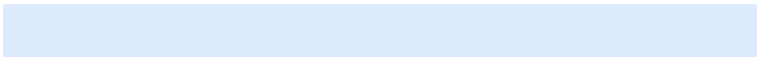
86.1763, 90.0364, 81.9455

# Split Complementary

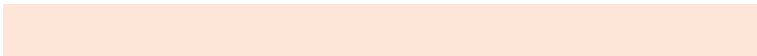
Split-complementary colors differ from the complementary color scheme. The scheme consists of three colors, the original color and two neighbors of the complement color.



75.5292, 82.1663, 76.0882



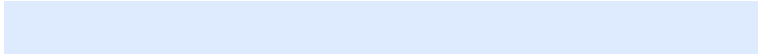
77.8825, 82.1663, 106.3626



81.1016, 82.1663, 76.6405

# Square

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



77.8825, 82.1663, 106.3626



83.7931, 82.1663, 90.0803



78.3111, 82.1663, 74.4593

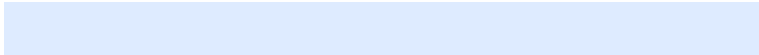


72.6643, 82.1663, 88.8528



# Rectangle

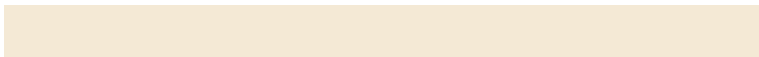
The Rectangle color scheme consists of four colors that form a rectangle on the color wheel.



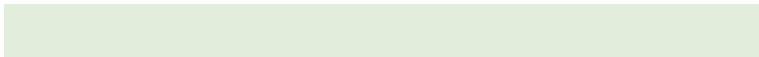
77.8825, 82.1663, 106.3626



82.2936, 82.1663, 100.6100



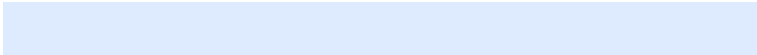
78.3111, 82.1663, 74.4593



74.0448, 82.1663, 79.1753

# Sweetspot

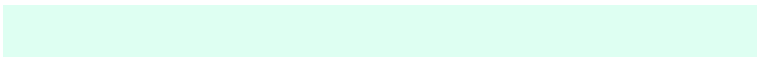
The Sweet Spot groups the original color and five complimentary colors.



77.8847, 82.1696, 106.3631



89.4563, 94.2363, 108.0823



81.8819, 93.4488, 97.5694



18.9284, 19.9439, 23.1019



0.0000, 0.0000, 0.0000

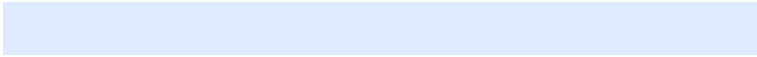


20.3446, 21.4041, 23.3091

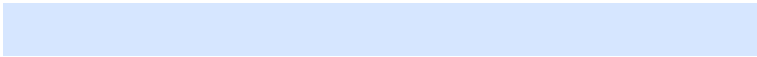


# Same Dimension

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



77.8847, 82.1696, 106.3631



74.2141, 78.2946, 105.8086



75.3174, 75.5198, 105.2149



17.5902, 18.5520, 22.9037



11.9724, 8.8543, 50.5126



1.2685, 1.0678, 4.9525



# Inverse Universe

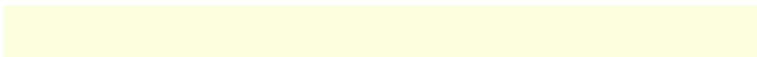
The Inverse Universe completely reimagines the original color for something new.



82.3580, 79.5021, 89.6060



79.6592, 75.1832, 85.3809



88.9815, 97.4336, 83.2254



18.3058, 18.1056, 20.2275



22.8313, 11.6218, 7.7621

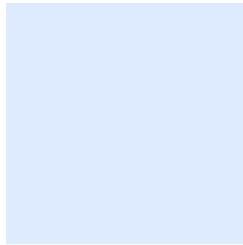


2.2749, 1.1523, 1.0291



# Previews

## White Background



This preview shows how the XYZ color 77.8825, 82.1663, 106.3626 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

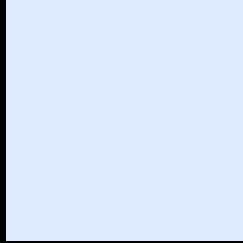
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the XYZ color 77.8825, 82.1663, 106.3626 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

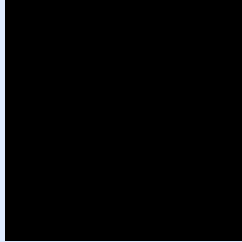
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

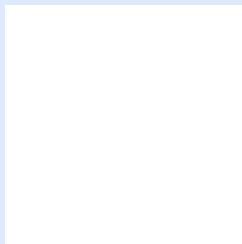
If you want to check with other color combinations, try the [Color Contrast Checker](#).

# XYZ 77.8825, 82.1663, 106.3626

## Background



This preview shows how black text looks on a background with the XYZ color 77.8825, 82.1663, 106.3626.



This preview shows how white text looks on a background with the XYZ color 77.8825, 82.1663,



# 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

77.8825, 82.1663, 106.3626

### Protanopia

79.8649, 81.9609, 104.5392

### Deuteranopia

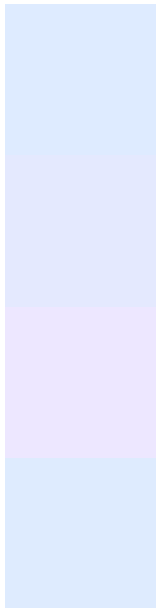
83.4496, 82.1193, 106.0601



## **Tritanopia**

77.7219, 82.1020, 105.5168

# Trichromacy



## Original Color

77.8825, 82.1663, 106.3626

## Protanomaly

79.0232, 81.9276, 105.4146

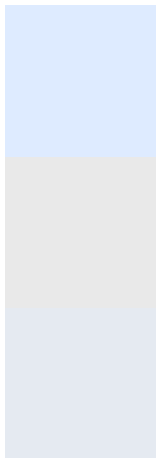
## Deuteranomaly

81.5510, 82.3764, 106.2098

## Tritanomaly

77.7219, 82.1020, 105.5168

# Monochromacy



## Original Color

77.8825, 82.1663, 106.3626

## Achromatopsia

77.4512, 81.4847, 88.7368

## Achromatomaly

77.6131, 81.8545, 94.9279

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 77.8825, 82.1663, 106.3626 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(222, 235, 255)` looks like.

```
.text, #text, p{  
    color:rgb(222, 235, 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(222, 235, 255) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(222, 235, 255) }
```

## Border

The CSS property to change the border of an element to XYZ 77.8825, 82.1663, 106.3626 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(222, 235, 255) }
```



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

```
.border{ border-color:rgb(222, 235, 255) }
```

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

Here you see how a box with a 4 pixel `rgb(222, 235, 255)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(222, 235, 255); -webkit-box-  
shadow:4px 4px 4px 4px rgb(222, 235, 255);  
box-shadow:4px 4px 4px 4px rgb(222, 235,  
255) }
```

# Background

The CSS property to change the background color of an element to XYZ 77.8825, 82.1663, 106.3626 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(222, 235, 255) }
```

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

```
.background{ background-color: rgb(222,  
235, 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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