

# Converting Colors

XYZ(77.8593, 90.0563, 90.6517)

Have a look what the booklet for  
XYZ(77.8593, 90.0563, 90.6517)  
contains.

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# Color

**XYZ(77.8373, 90.1029,  
90.3799)**

# Conversions

## Conversions Part 1

Format	Color
Hex	D8FCE9
RGB	216, 252, 233
RGB Percent	85%, 99%, 91%
CMY	0.1529, 0.0117, 0.0863
CMYK	0.14, 0.00, 0.08, 0.01
HSL	148°, 86%, 92%
HSV	148°, 14%, 99%
XYZ	77.8373, 90.1029, 90.3799
YIQ	239.0700, -15.3570, -13.5410

# Conversions

## Conversions Part 2

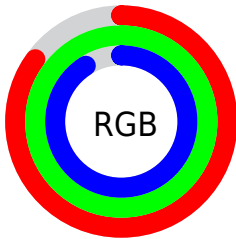
<b>Format</b>	<b>Color</b>
R <sub>Y</sub> B	216, 240, 252
Decimal	14220521
CIE Lab	96.04, -15.14, 5.21
CIE LCh	96, 16.008, 161.004
Yxy	90.1029, 0.3013, 0.3488
Android (android.graphics.Color)	4292410601 (0xFFD8FCE9)
YUV	239.0700, -2.9925, -20.2324
Hunter-Lab	94.9225, -19.7429, 9.9932

# Details

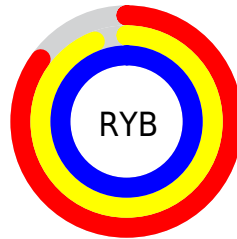
The XYZ color **77.8373, 90.1029, 90.3799** is a light color, and the websafe version is hex **CCFFFF**. A complement of this color would be **79.6994, 75.8077, 89.0332**, and the grayscale version is **82.1318, 86.4090, 94.0995**.

A 20% lighter version of the original color is **95.0500, 100.0000, 108.9000**, and **42.1489, 49.7816, 48.9823** is the 20% darker color. If you saturate the color by 10%, you get **69.1266, 85.8262, 80.4250**, and if you desaturate by 10%, it is **87.8381, 95.0331, 101.1467**.

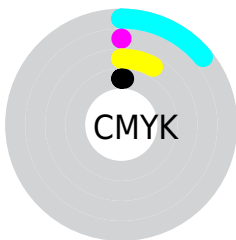
# Distribution



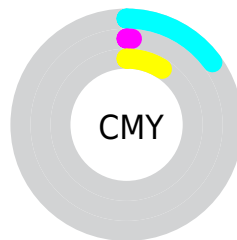
- Red (85%)
- Green (99%)
- Blue (91%)



- Red (85%)
- Yellow (94%)
- Blue (99%)



- Cyan (14%)
- Magenta (0%)
- Yellow (8%)
- Black (1%)




- Cyan (15%)
- Magenta (1%)
- Yellow (9%)


# Brightness & Saturation Gradients

These gradients show how the XYZ color 77.8373, 90.1029, 90.3799 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 77.8373, 90.1029, 90.3799 by changing the saturation by 10% instead.



 77.8373, 90.1029,  
90.3799

 77.8373, 90.1029,  
90.3799


476.4624,  
528.3655, 549.8678

 58.2427, 68.0660,  
67.7203


129.2873,  
147.4813, 149.8061

 42.2478, 49.9514,  
49.2049


161.8734,  
183.5916, 187.4098

 29.4873, 35.3748,  
34.4153

199.5207,  
225.1618, 230.8319

 19.5959, 23.9517,  
22.9329

242.5945,  
272.5764, 280.4910

 12.2082, 15.2978,  
14.3391

291.4602,  
326.2196, 336.8056

 6.9588, 9.0287,  
8.2155

346.4832,

 3.4825, 4.7599,

386.4759, 400.1942

4.1434

408.0288,  
453.7298, 471.0755

■ 1.4137, 2.1071,  
1.7043

■ 0.2660, 0.6686,  
0.3637

■ 77.8373, 90.1029,  
90.3799

■ 77.8373, 90.1029,  
90.3799

■ 69.1266, 85.8262,  
80.4250

■ 87.8381, 95.0331,  
101.1467

■ 61.6435, 82.1637,  
71.2571

■ 94.1021, 98.1042,  
108.5840

■ 55.3314, 79.0891,  
62.8584

■ 50.1260, 76.5695,  
55.2085

■ 45.9568, 74.5691,  
48.2857

■ 42.7445, 73.0474,  
42.0672

■ 40.3972, 71.9575,  
36.5290

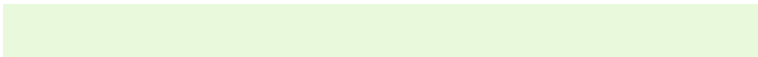
■ 38.8035, 71.2424,  
31.6448

■ 38.1413, 70.9558,  
29.1353

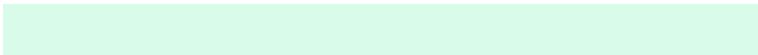
# Harmonies

## Analogous

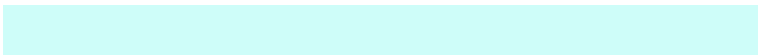
The Analogous color harmony consists of three colors that are next to each other on the color wheel.



80.1731, 90.1029, 80.8275



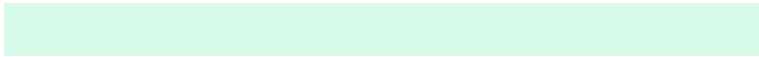
77.8373, 90.1029, 90.3799



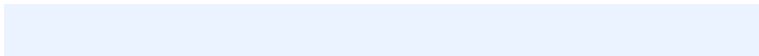
77.5494, 90.1029, 102.8363

# Triad

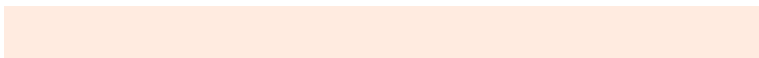
The Triadic color harmony groups three colors that are evenly spaced from another and form a triangle on the color wheel.



77.8373, 90.1029, 90.3799



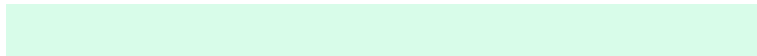
87.2760, 90.1029, 124.0488



92.2292, 90.1029, 82.9584

# Complementary

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



77.8373, 90.1029, 90.3799



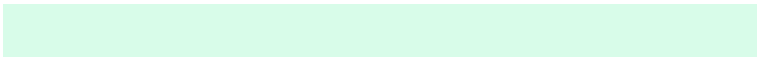
79.6994, 75.8077, 89.0332

# 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.



94.2748, 90.1029, 93.5245



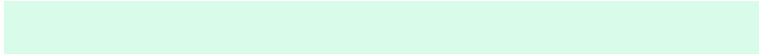
77.8373, 90.1029, 90.3799



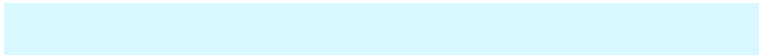
91.3502, 90.1029, 117.6882

# Square

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



77.8373, 90.1029, 90.3799



82.8978, 90.1029, 123.0229



93.9477, 90.1029, 106.2619

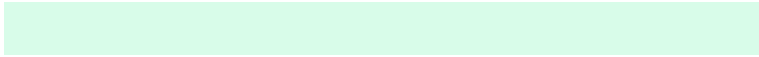


88.4422, 90.1029, 76.8047

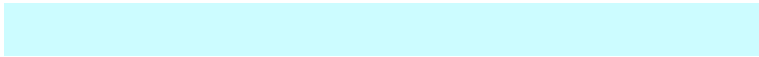


# Rectangle

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



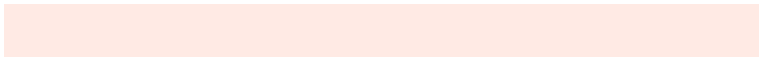
77.8373, 90.1029, 90.3799



78.5459, 90.1029, 111.2140



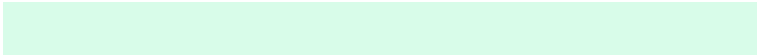
93.9477, 90.1029, 106.2619



93.1491, 90.1029, 86.0721

# Sweetspot

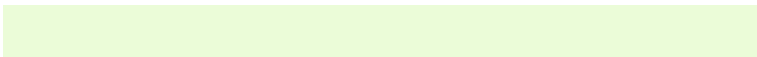
The Sweet Spot groups the original color and five complimentary colors.



77.8398, 90.1067, 90.3819



90.5416, 97.7746, 104.2276



81.5353, 92.2790, 78.4814



19.2034, 20.8409, 22.1242



0.0000, 0.0000, 0.0000



20.3446, 21.4041, 23.3091

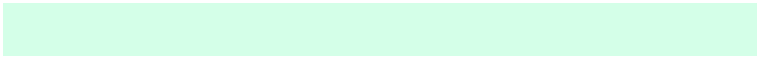


# Same Dimension

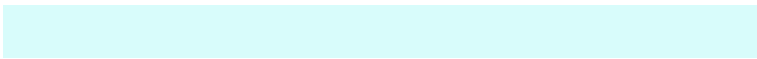
The Same Dimension uses a secret algorithm to generate beautiful new colors.



77.8398, 90.1067, 90.3819



77.3929, 91.2980, 89.9756



80.5135, 91.1762, 104.4611



17.3586, 19.4457, 20.0888



19.9405, 36.9892, 15.5617



1.8999, 3.4471, 1.7209



# Inverse Universe

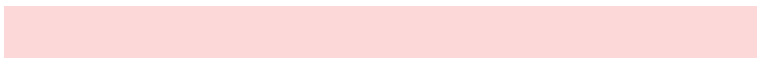
The Inverse Universe completely reimagines the original color for something new.



79.6994, 75.8077, 89.0332



79.6238, 74.1433, 88.3571



77.2539, 74.8295, 76.1554



17.6274, 17.3783, 19.8939



23.1929, 11.6929, 12.9901



2.2017, 1.1044, 1.4853



# Previews

## White Background



This preview shows how the XYZ color 77.8373, 90.1029, 90.3799 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

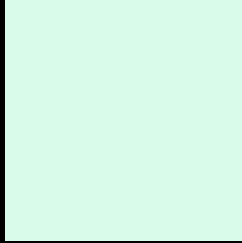
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the XYZ color 77.8373, 90.1029, 90.3799 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

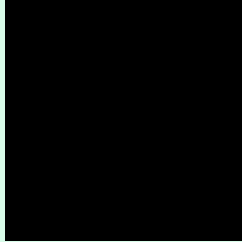
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

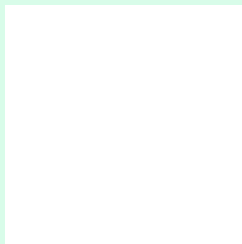
If you want to check with other color combinations, try the [Color Contrast Checker](#).

**XYZ 77.8373, 90.1029, 90.3799**

## **Background**



This preview shows how black text looks on a background with the XYZ color 77.8373, 90.1029, 90.3799.



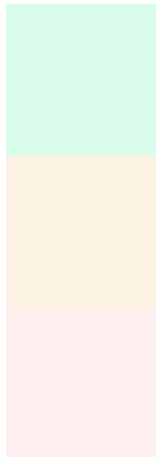
This preview shows how white text looks on a background with the XYZ color 77.8373, 90.1029,

90.3799.

# 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

77.8373, 90.1029, 90.3799

### Protanopia

85.5394, 89.6149, 86.1878

### Deuteranopia

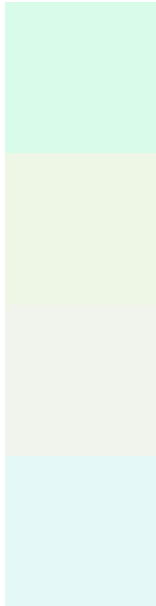
88.1283, 89.8714, 95.1401



## Tritanopia

84.3067, 89.8485, 107.5068

# Trichromacy



## Original Color

77.8373, 90.1029, 90.3799

## Protanomaly

82.4986, 89.8018, 87.8483

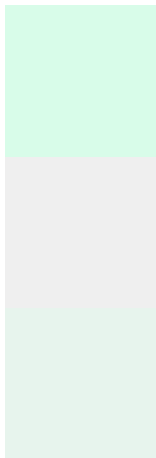
## Deuteranomaly

83.9124, 89.5166, 92.9765

## Tritanomaly

82.0345, 90.1811, 101.0787

# Monochromacy



## Original Color

77.8373, 90.1029, 90.3799

## Achromatopsia

82.0431, 86.3157, 93.9978

## Achromatomaly

80.5917, 87.8047, 92.8211

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 77.8373, 90.1029, 90.3799 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(216, 252, 233)` looks like.

```
.text, #text, p{  
    color:rgb(216, 252, 233)  
}
```

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(216, 252, 233) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(216, 252, 233) }
```

## Border

The CSS property to change the border of an element to XYZ 77.8373, 90.1029, 90.3799 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(216, 252, 233) }
```



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

```
.border{ border-color:rgb(216, 252, 233) }
```

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

Here you see how a box with a 4 pixel rgb(216, 252, 233) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(216, 252, 233); -webkit-box-  
shadow:4px 4px 4px 4px rgb(216, 252, 233);  
box-shadow:4px 4px 4px 4px rgb(216, 252,  
233) }
```

# Background

The CSS property to change the background color of an element to XYZ 77.8373, 90.1029, 90.3799 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(216, 252, 233) }
```

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

```
.background{ background-color: rgb(216,  
252, 233) }
```

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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