

# Converting Colors

XYZ(77.7013, 90.4842,  
103.0024)

Have a look what the booklet for  
XYZ(77.7013, 90.4842, 103.0024)  
contains.

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# **Color**

**XYZ(77.7175, 90.7023,  
103.0337)**

# Conversions

## Conversions Part 1

Format	Color
Hex	CDFEF9
RGB	205, 254, 249
RGB Percent	80%, 100%, 98%
CMY	0.1961, 0.0039, 0.0235
CMYK	0.19, 0.00, 0.02, 0.00
HSL	174°, 96%, 90%
HSV	174°, 19%, 100%
XYZ	77.7175, 90.7023, 103.0337
YIQ	238.7790, -27.5990, -11.9430

# Conversions

## Conversions Part 2

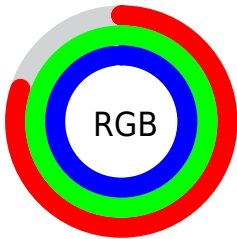
<b>Format</b>	<b>Color</b>
R <sub>Y</sub> B	205, 231, 254
Decimal	13500153
CIE Lab	96.29, -16.44, -2.75
CIE LCh	96, 16.674, 189.506
Yxy	90.7023, 0.2863, 0.3341
Android (android.graphics.Color)	4291690233 (0xFFCDFEF9)
YUV	238.7790, 5.0390, -29.6242
Hunter-Lab	95.2378, -21.0035, 2.5231

# Details

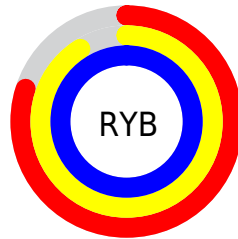
The XYZ color **77.7175, 90.7023, 103.0337** is a light color, and the websafe version is hex **CCFFFF**. A complement of this color would be **74.3404, 69.3890, 70.4518**, and the grayscale version is **81.8518, 86.1144, 93.7786**.

A 20% lighter version of the original color is **95.0500, 100.0000, 108.9000**, and **42.1696, 50.2668, 57.9320** is the 20% darker color. If you saturate the color by 10%, you get **70.8706, 87.2214, 100.6179**, and if you desaturate by 10%, it is **85.7126, 94.7793, 105.5362**.

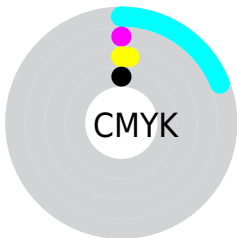
# Distribution



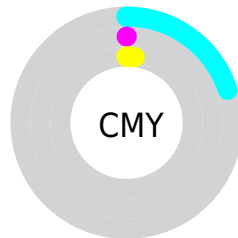
- Red (80%)
- Green (100%)
- Blue (98%)



- Red (80%)
- Yellow (91%)
- Blue (100%)



- Cyan (19%)
- Magenta (0%)
- Yellow (2%)
- Black (0%)



- Cyan (20%)
- Magenta (0%)
- Yellow (2%)

# Brightness & Saturation Gradients

These gradients show how the XYZ color 77.7175, 90.7023, 103.0337 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 77.7175, 90.7023, 103.0337 by changing the saturation by 10% instead.



77.7175, 90.7023,  
103.0337

77.7175, 90.7023,  
103.0337

476.0614,  
530.3128, 591.2054

58.1439, 68.5633,  
78.2056

129.1193,  
148.3135, 167.4081

42.1681, 50.3561,  
57.7254

161.6782,  
184.5545, 207.7914

29.4246, 35.6964,  
41.1747

199.2963,  
226.2650, 254.1969

19.5482, 24.1998,  
28.1349

242.3389,  
273.8293, 307.0431

12.1734, 15.4819,  
18.1874

291.1713,  
327.6318, 366.7484

6.9349, 9.1583,  
10.9138

346.1590,

3.4674, 4.8446,

388.0570, 433.7316

5.8955

407.6672,  
455.4892, 508.4111

■ 1.4055, 2.1564,  
2.7139

■ 0.2601, 0.6960,  
0.9504

■ 77.7175, 90.7023,  
103.0337

■ 77.7175, 90.7023,  
103.0337

■ 70.8706, 87.2214,  
100.6179

■ 85.7126, 94.7793,  
105.5362

■ 65.1093, 84.2971,  
98.2800

94.6031, 99.3148,  
108.1080

■ 60.3768, 81.9026,  
96.0191

94.7334, 99.3669,  
108.7945

■ 56.6081, 80.0042,  
93.8322

■ 53.7306, 78.5647,  
91.7157

■ 51.6617, 77.5414,  
89.6656

■ 50.3030, 76.8835,  
87.6772

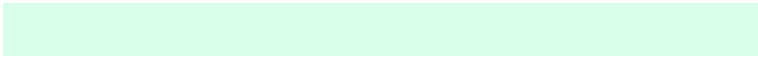
■ 49.5048, 76.5141,  
85.7433

■ 49.4568, 76.4922,  
85.6079

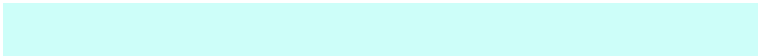
# Harmonies

## Analogous

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



78.1303, 90.7023, 90.0922



77.7175, 90.7023, 103.0337



79.5164, 90.7023, 115.8979

# Triad

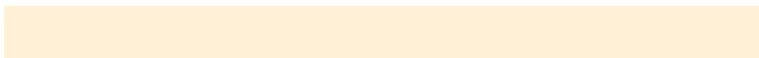
The Triadic color harmony groups three colors that are evenly spaced from another and form a triangle on the color wheel.



77.7175, 90.7023, 103.0337



92.0030, 90.7023, 119.7847



89.3670, 90.7023, 76.7337

# Complementary

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



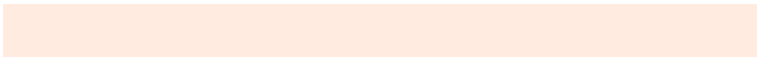
77.7175, 90.7023, 103.0337



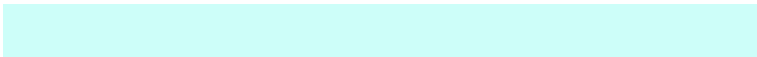
74.3404, 69.3890, 70.4518

# 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.



93.2686, 90.7023, 83.3996



77.7175, 90.7023, 103.0337



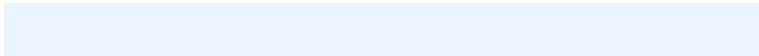
94.8280, 90.7023, 107.9654

# Square

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



77.7175, 90.7023, 103.0337



87.6896, 90.7023, 126.1244



95.2993, 90.7023, 94.6049



84.7467, 90.7023, 75.6698

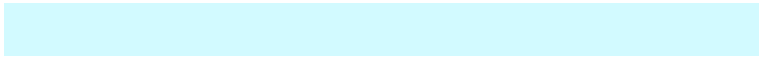


# Rectangle

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



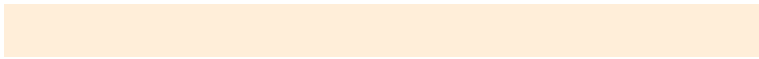
77.7175, 90.7023, 103.0337



81.7671, 90.7023, 122.4191



95.2993, 90.7023, 94.6049



90.8106, 90.7023, 78.3632

# Sweetspot

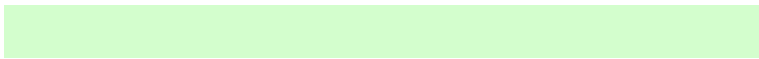
The Sweet Spot groups the original color and five complimentary colors.



77.7201, 90.7060, 103.0357



89.3929, 97.1126, 107.3277



73.2468, 89.1023, 71.0971



19.0077, 20.7218, 22.9363



0.0000, 0.0000, 0.0000

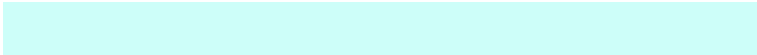


20.3446, 21.4041, 23.3091

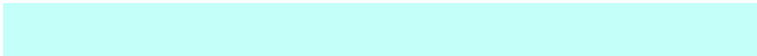


# Same Dimension

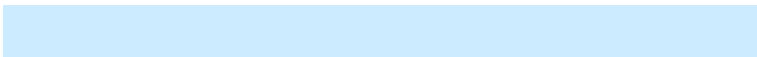
The Same Dimension uses a secret algorithm to generate beautiful new colors.



77.7201, 90.7060, 103.0357



75.7168, 90.1430, 103.0407



72.8393, 79.6787, 105.3108



18.4702, 20.4476, 22.7791



26.1052, 40.3387, 45.3005



2.5639, 3.9365, 4.5272



# Inverse Universe

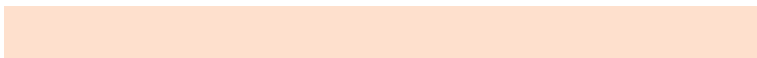
The Inverse Universe completely reimagines the original color for something new.



74.3404, 69.3890, 70.4518



71.7598, 65.1783, 64.8859



78.4931, 78.6765, 68.8082



18.0847, 18.0172, 19.0633



21.6709, 11.1576, 1.6514

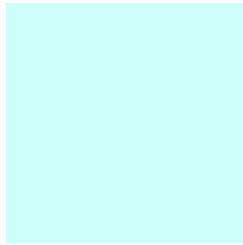


2.1338, 1.0959, 0.2860



# Previews

## White Background



This preview shows how the XYZ color 77.7175, 90.7023, 103.0337 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

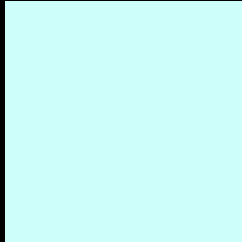
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the XYZ color 77.7175, 90.7023, 103.0337 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

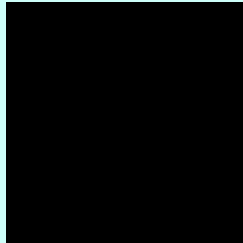
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

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

**XYZ 77.7175, 90.7023, 103.0337**

## **Background**



This preview shows how black text looks on a background with the XYZ color 77.7175, 90.7023, 103.0337.



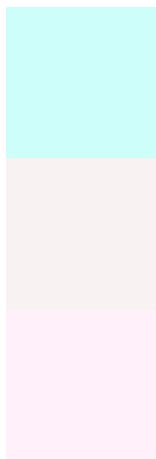
This preview shows how white text looks on a background with the XYZ color 77.7175, 90.7023,



# 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

77.7175, 90.7023, 103.0337

### Protanopia

86.7890, 90.4684, 96.8923

### Deuteranopia

89.4990, 90.4197, 102.3582



## **Tritanopia**

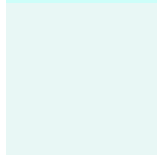
84.2658, 90.7305, 107.6792

# Trichromacy



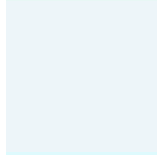
## Original Color

77.7175, 90.7023, 103.0337



## Protanomaly

83.0209, 90.2699, 99.4344



## Deuteranomaly

84.6763, 90.1489, 102.5601



## Tritanomaly

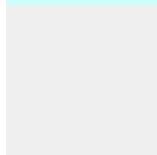
82.0394, 90.9927, 106.1679

# Monochromacy



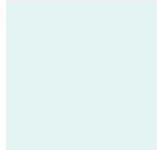
## Original Color

77.7175, 90.7023, 103.0337



## Achromatopsia

82.0431, 86.3157, 93.9978



## Achromatomaly

80.2069, 87.5033, 97.4565

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 77.7175, 90.7023, 103.0337 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(205, 254, 249)` looks like.

```
.text, #text, p{  
    color:rgb(205, 254, 249)  
}
```

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(205, 254, 249) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(205, 254, 249) }
```

## Border

The CSS property to change the border of an element to XYZ 77.7175, 90.7023, 103.0337 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(205, 254, 249) }
```



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

```
.border{ border-color:rgb(205, 254, 249) }
```

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

Here you see how a box with a 4 pixel `rgb(205, 254, 249)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(205, 254, 249); -webkit-box-  
shadow:4px 4px 4px 4px rgb(205, 254, 249);  
box-shadow:4px 4px 4px 4px rgb(205, 254,  
249) }
```

# Background

The CSS property to change the background color of an element to XYZ 77.7175, 90.7023, 103.0337 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(205, 254, 249) }
```

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

```
.background{ background-color: rgb(205,  
254, 249) }
```

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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