

# Converting Colors

XYZ(64.0990, 77.8141, 91.9964)

Have a look what the booklet for  
XYZ(64.0990, 77.8141, 91.9964)  
contains.

<b>XYZ(64.1969, 78.0237, 91.7973)</b> .....	3
<b><i>Conversions</i></b> .....	4
<b><i>Details</i></b> .....	6
<b><i>Harmonies</i></b> .....	12
<b><i>Previews</i></b> .....	24
<b><i>Color Blindness Simulation</i></b> .....	28
<b><i>CSS Examples</i></b> .....	31

# Color

**XYZ(64.1969, 78.0237,  
91.7973)**

# Conversions

## Conversions Part 1

Format	Color
Hex	AEF1ED
RGB	174, 241, 237
RGB Percent	68%, 95%, 93%
CMY	0.3176, 0.0549, 0.0706
CMYK	0.28, 0.00, 0.02, 0.05
HSL	176°, 71%, 81%
HSV	176°, 28%, 95%
XYZ	64.1969, 78.0237, 91.7973
YIQ	220.5110, -38.6480, -15.4480

# Conversions

## Conversions Part 2

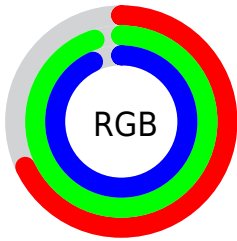
<b>Format</b>	<b>Color</b>
<b>RYB</b>	174, 209, 241
Decimal	11465197
CIELab	90.79, -21.61, -4.82
CIELCh	91, 22.141, 192.564
Yxy	78.0237, 0.2743, 0.3334
Android (android.graphics.Color)	4289655277 (0xFFAEF1ED)
YUV	220.5110, 8.1291, -40.7901
Hunter-Lab	88.3310, -24.8497, 0.2151

# Details

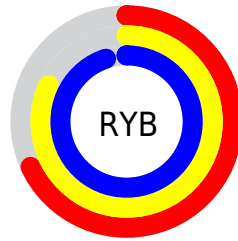
The XYZ color **64.1969, 78.0237, 91.7973** is a light color, and the websafe version is hex **CCFFFF**. A complement of this color would be **59.4503, 52.1894, 49.0627**, and the grayscale version is **68.3507, 71.9102, 78.3102**.

A 20% lighter version of the original color is **86.7650, 95.7289, 108.5123**, and **33.2972, 41.9561, 50.0594** is the 20% darker color. If you saturate the color by 10%, you get **59.0931, 75.4188, 90.4663**, and if you desaturate by 10%, it is **70.2702, 81.1322, 93.1859**.

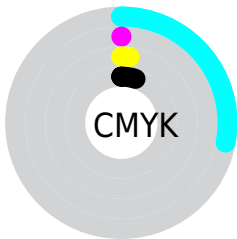
# Distribution



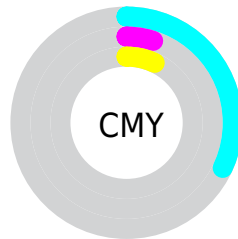
- Red (68%)
- Green (95%)
- Blue (93%)



- Red (68%)
- Yellow (82%)
- Blue (95%)



- Cyan (28%)
- Magenta (0%)
- Yellow (2%)
- Black (5%)



- Cyan (32%)
- Magenta (5%)
- Yellow (7%)

# Brightness & Saturation Gradients

These gradients show how the XYZ color 64.1969, 78.0237, 91.7973 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 64.1969, 78.0237, 91.7973 by changing the saturation by 10% instead.



64.1969, 78.0237,  
91.7973

64.1969, 78.0237,  
91.7973

429.4913,  
488.2473, 554.5805

47.0724, 58.0934,  
68.8902

109.9666,  
130.5835, 151.7897

33.3011, 41.8838,  
50.1511

139.3426,  
163.9819, 189.7120

22.5176, 29.0103,  
35.1614

173.5331,  
202.6384, 233.4765

14.3564, 19.0886,  
23.5027

212.9035,  
246.9375, 283.5018

8.4523, 11.7343,  
14.7564

257.8192,  
297.2636, 340.2062

4.4399, 6.5630,  
8.5039

308.6455,

1.9539, 3.1904,

354.0009, 404.0085

4.3266

365.7477,  
417.5341, 475.3270

■ 0.6079, 1.2319,  
1.8062

■ 0.0000, 0.0875,  
0.4320

■ 64.1969, 78.0237,  
91.7973

■ 64.1969, 78.0237,  
91.7973

■ 59.0931, 75.4188,  
90.4663

■ 70.2702, 81.1322,  
93.1859

■ 54.9005, 73.2814,  
89.1850


■ 77.3539, 84.7593,  
94.6289


■ 51.5650, 71.5857,  
87.9526


■ 85.4947, 88.9313,  
96.1303


■ 49.0240, 70.2995,  
86.7661

■ 88.8383, 90.6300,  
97.4160


 47.2065, 69.3859,  
85.6223


 89.0563, 90.7172,  
98.5644


 46.0287, 68.8020,  
84.5171


 89.2761, 90.8051,  
99.7218

 45.3775, 68.4893,  
83.4452

 89.4976, 90.8937,  
100.8882

 45.2675, 68.4377,  
83.2122

 89.7208, 90.9830,  
102.0636

 89.9458, 91.0730,  
103.2481

# Harmonies

## Analogous

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



64.4110, 78.0237, 76.0983



64.1969, 78.0237, 91.7973



66.5534, 78.0237, 107.4170

# Triad

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



64.1969, 78.0237, 91.7973



81.6357, 78.0237, 109.5853



77.4121, 78.0237, 58.9414

# Complementary

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



64.1969, 78.0237, 91.7973



59.4503, 52.1894, 49.0627

# 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.



82.3234, 78.0237, 65.8645



64.1969, 78.0237, 91.7973



84.8444, 78.0237, 94.4726

# Square

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



64.1969, 78.0237, 91.7973



76.5115, 78.0237, 118.5166



85.1022, 78.0237, 78.4606



71.8556, 78.0237, 58.4145

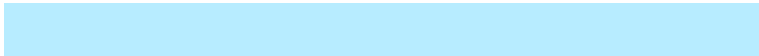


# Rectangle

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



64.1969, 78.0237, 91.7973



69.3370, 78.0237, 115.1614



85.1022, 78.0237, 78.4606



79.1999, 78.0237, 60.5537

# Sweetspot

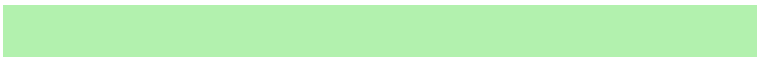
The Sweet Spot groups the original color and five complimentary colors.



64.1992, 78.0269, 91.7991



87.7434, 96.2559, 107.5370



57.5650, 75.4901, 51.5829



18.5052, 20.4616, 22.9635



0.0000, 0.0000, 0.0000



20.3446, 21.4041, 23.3091

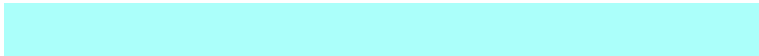


# Same Dimension

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



64.1992, 78.0269, 91.7991



69.7729, 87.0615, 103.5470



56.8702, 62.4224, 92.2741



16.2042, 17.9117, 20.0982



24.5647, 37.1179, 45.2180



2.0559, 3.0928, 3.8265



# Inverse Universe

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



59.4503, 52.1894, 49.0627



63.5989, 53.4589, 47.9773



65.2821, 64.4870, 49.0524



15.8111, 15.7741, 16.5614



19.7317, 10.1651, 1.2378

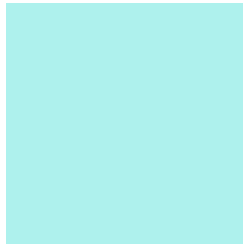


1.6548, 0.8510, 0.1733



# Previews

## White Background



This preview shows how the XYZ color 64.1969, 78.0237, 91.7973 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

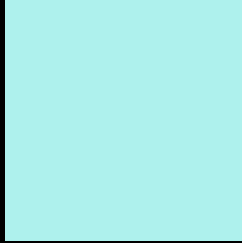
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the XYZ color 64.1969, 78.0237, 91.7973 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

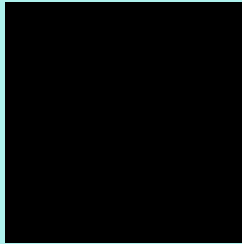
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

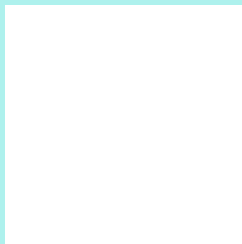
If you want to check with other color combinations, try the [Color Contrast Checker](#).

**XYZ 64.1969, 78.0237, 91.7973**

## **Background**



This preview shows how black text looks on a background with the XYZ color 64.1969, 78.0237, 91.7973.



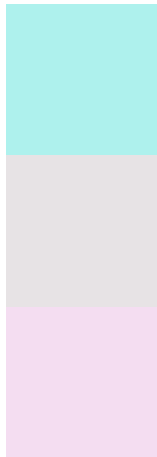
This preview shows how white text looks on a background with the XYZ color 64.1969, 78.0237,



# 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

64.1969, 78.0237, 91.7973

### Protanopia

74.5669, 77.5842, 85.1739

### Deuteranopia

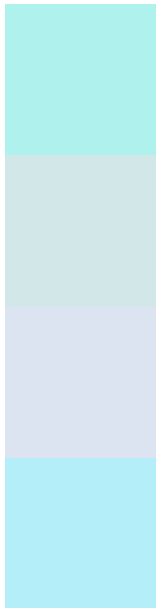
79.0419, 77.2969, 93.9729



## Tritanopia

67.8626, 77.8557, 106.0586

# Trichromacy



## Original Color

64.1969, 78.0237, 91.7973

## Protanomaly

70.0004, 77.2411, 87.5635

## Deuteranomaly

72.6850, 76.8381, 93.4384

## Tritanomaly

66.3402, 77.6297, 100.2945

# Monochromacy



## Original Color

64.1969, 78.0237, 91.7973

## Achromatopsia

68.7264, 72.3055, 78.7407

## Achromatomaly

66.5104, 73.8702, 83.4260

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 64.1969, 78.0237, 91.7973 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(174, 241, 237)` looks like.

```
.text, #text, p{  
    color:rgb(174, 241, 237)  
}
```

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(174, 241, 237) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(174, 241, 237) }
```

## Border

The CSS property to change the border of an element to XYZ 64.1969, 78.0237, 91.7973 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(174, 241, 237) }
```



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

```
.border{ border-color:rgb(174, 241, 237) }
```

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

Here you see how a box with a 4 pixel rgb(174, 241, 237) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(174, 241, 237); -webkit-box-  
shadow:4px 4px 4px 4px rgb(174, 241, 237);  
box-shadow:4px 4px 4px 4px rgb(174, 241,  
237) }
```

# Background

The CSS property to change the background color of an element to XYZ 64.1969, 78.0237, 91.7973 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(174, 241, 237) }
```

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

```
.background{ background-color: rgb(174,  
241, 237) }
```

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](#).

Hey! You found this booklet interesting? Support Converting Colors with the new Membership Option!

The pro membership hides all ads, plus gives you double the colors in the color bucket, and more awesome pro features!

**[Learn more, Memberships starting at \\$2.50/m!](#)**

**Follow me  
on Twitter!**

@ConvertingColor