

# Converting Colors

XYZ(70.7850, 76.5019,  
143.6772)

Have a look what the booklet for  
XYZ(70.7850, 76.5019, 143.6772)  
contains.

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# Color

**XYZ(63.4842, 73.4793,  
105.4447)**

# Conversions

## Conversions Part 1

Format	Color
Hex	AAE8FF
RGB	170, 232, 255
RGB Percent	67%, 91%, 100%
CMY	0.3333, 0.0902, 0.0000
CMYK	0.33, 0.09, 0.00, 0.00
HSL	196°, 100%, 83%
HSV	196°, 33%, 100%
XYZ	63.4842, 73.4793, 105.4447
YIQ	216.0840, -44.3350, -5.9910

# Conversions

## Conversions Part 2

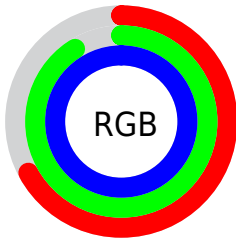
Format	Color
R <sub>Y</sub> B	170, 206, 255
Decimal	11200767
CIE Lab	88.68, -14.12, -17.40
CIE LCh	89, 22.408, 230.927
Yxy	73.4793, 0.2619, 0.3031
Android (android.graphics.Color)	4289390847 (0xFFAAE8FF)
YUV	216.0840, 19.1856, -40.4157
Hunter-Lab	85.7201, -17.8132, -12.9289

# Details

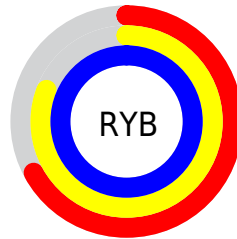
The XYZ color **63.4842, 73.4793, 105.4447** is a light color, and the websafe version is hex **CCFFFF**. A complement of this color would be **67.5659, 62.3022, 46.4965**, and the grayscale version is **65.2243, 68.6210, 74.7283**.

A 20% lighter version of the original color is **85.4886, 95.0709, 108.4525**, and **32.7886, 38.7727, 59.1818** is the 20% darker color. If you saturate the color by 10%, you get **56.5935, 67.1021, 104.5770**, and if you desaturate by 10%, it is **71.5243, 80.5657, 106.3888**.

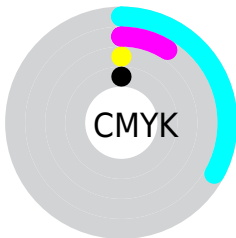
# Distribution



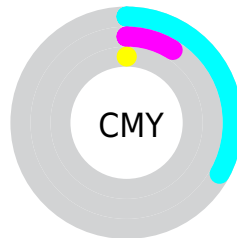
- Red (67%)
- Green (91%)
- Blue (100%)



- Red (67%)
- Yellow (81%)
- Blue (100%)



- Cyan (33%)
- Magenta (9%)
- Yellow (0%)
- Black (0%)



- Cyan (33%)
- Magenta (9%)
- Yellow (0%)

# Brightness & Saturation Gradients

These gradients show how the XYZ color 63.4842, 73.4793, 105.4447 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 63.4842, 73.4793, 105.4447 by changing the saturation by 10% instead.



63.4842, 73.4793,  
105.4447

63.4842, 73.4793,  
105.4447

426.9564,  
472.6743, 598.9065

46.4932, 54.3680,  
80.2132

108.9457,  
124.1574, 170.7364

32.8414, 38.8959,  
59.3666

138.1468,  
156.4930, 211.6338

22.1636, 26.6788,  
42.4864

172.1486,  
194.0054, 258.5901

14.0945, 17.3321,  
29.1539

211.3166,  
237.0791, 312.0241

8.2685, 10.4716,  
18.9507

256.0160,  
286.0984, 372.3542

4.3205, 5.7127,  
11.4582

306.6122,

1.8850, 2.6712,

341.4478, 439.9989

6.2579

363.4705,  
403.5116, 515.3768

■ 0.5681, 0.9626,  
2.9312

■ 0.0000, 0.0000,  
1.0596

■ 63.4842, 73.4793,  
105.4447

■ 63.4842, 73.4793,  
105.4447

■ 56.5935, 67.1021,  
104.5770

■ 71.5243, 80.5657,  
106.3888

■ 50.7832, 61.3920,  
103.7810

■ 80.7656, 88.3841,  
107.4108

■ 45.9860, 56.3148,  
103.0539

■ 91.2641, 96.9662,  
108.5140

■ 42.1242, 51.8291,  
102.3916

95.0500, 100.0000,  
108.9000

■ 39.1076, 47.8870,  
101.7897

■ 36.8271, 44.4310,  
101.2428

■ 35.6109, 42.3419,  
100.9036

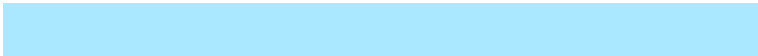
# Harmonies

## Analogous

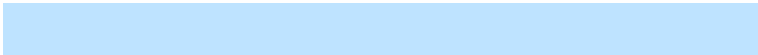
The Analogous color harmony consists of three colors that are next to each other on the color wheel.



60.5644, 73.4793, 91.1302



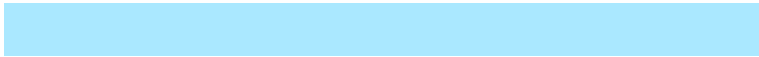
63.4842, 73.4793, 105.4447



68.2118, 73.4793, 113.1909

# Triad

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



63.4842, 73.4793, 105.4447



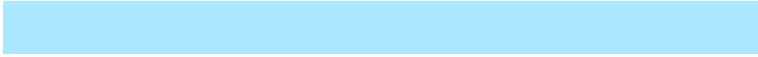
80.6277, 73.4793, 84.7983



66.1886, 73.4793, 55.2742

# Complementary

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



63.4842, 73.4793, 105.4447



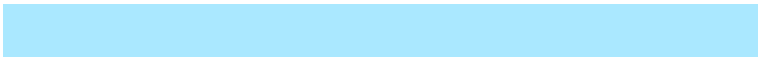
67.5659, 62.3022, 46.4965

# 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.



71.4936, 73.4793, 54.0385



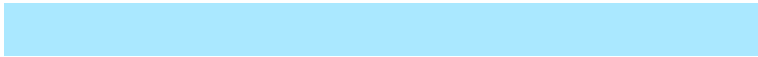
63.4842, 73.4793, 105.4447



80.0171, 73.4793, 69.8269

# Square

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



63.4842, 73.4793, 105.4447



78.2339, 73.4793, 100.2989



76.6062, 73.4793, 59.0286

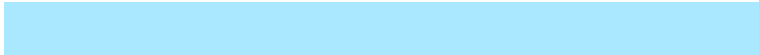


62.0688, 73.4793, 62.6541



# Rectangle

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



63.4842, 73.4793, 105.4447



71.8311, 73.4793, 112.9799



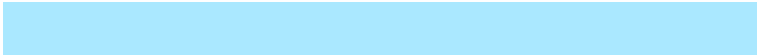
76.6062, 73.4793, 59.0286



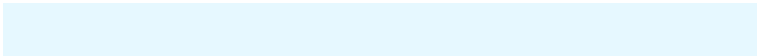
67.8858, 73.4793, 54.1676

# Sweetspot

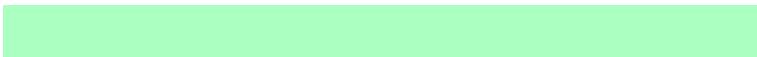
The Sweet Spot groups the original color and five complimentary colors.



63.4862, 73.4821, 105.4451



84.1213, 91.1573, 107.7692



61.9272, 83.9020, 63.1898



17.6988, 19.2588, 23.0344



0.0000, 0.0000, 0.0000

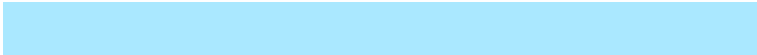


20.3446, 21.4041, 23.3091

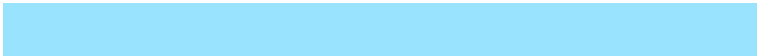


# Same Dimension

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



63.4862, 73.4821, 105.4451



58.7666, 69.1517, 104.8580



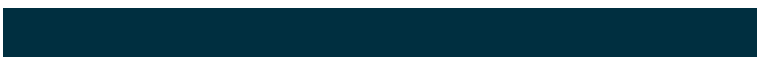
53.0064, 52.5225, 101.9519



18.1148, 19.6012, 23.0786



18.7378, 22.3851, 52.7678



1.9150, 2.3608, 5.1680



# Inverse Universe

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



70.1815, 55.8373, 83.4258



66.5522, 49.6108, 79.0338



78.2524, 83.6751, 50.0587



18.5706, 18.2116, 21.6219



26.2462, 12.9878, 25.7444

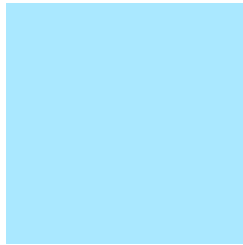


2.6012, 1.2829, 2.7475



# Previews

## White Background



This preview shows how the XYZ color 63.4842, 73.4793, 105.4447 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

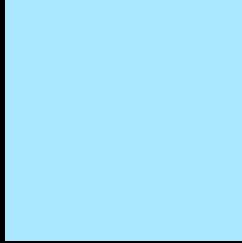
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the XYZ color 63.4842, 73.4793, 105.4447 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

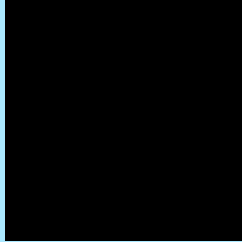
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

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

# XYZ 63.4842, 73.4793, 105.4447

## Background



This preview shows how black text looks on a background with the XYZ color 63.4842, 73.4793, 105.4447.



This preview shows how white text looks on a background with the XYZ color 63.4842, 73.4793,



# 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

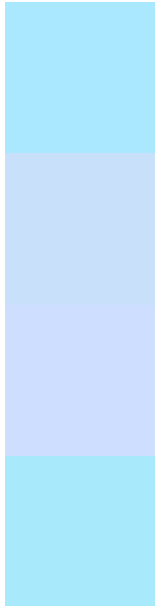




## Tritanopia

62.9137, 73.6779, 102.1721

# Trichromacy



## Original Color

63.4842, 73.4793, 105.4447

## Protanomaly

67.9984, 72.6309, 100.8778

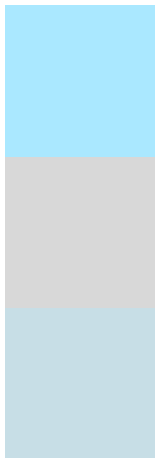
## Deuteranomaly

69.6249, 72.5844, 104.9483

## Tritanomaly

63.0718, 73.7411, 103.0047

# Monochromacy



## Original Color

63.4842, 73.4793, 105.4447

## Achromatopsia

65.2694, 68.6685, 74.7800

## Achromatomaly

63.9574, 70.0978, 85.0222

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 63.4842, 73.4793, 105.4447 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(170, 232, 255)` looks like.

```
.text, #text, p{  
    color:rgb(170, 232, 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(170, 232, 255) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(170, 232, 255) }
```

## Border

The CSS property to change the border of an element to XYZ 63.4842, 73.4793, 105.4447 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(170, 232, 255) }
```



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

```
.border{ border-color:rgb(170, 232, 255) }
```

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

Here you see how a box with a 4 pixel `rgb(170, 232, 255)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(170, 232, 255); -webkit-box-  
shadow:4px 4px 4px 4px rgb(170, 232, 255);  
box-shadow:4px 4px 4px 4px rgb(170, 232,  
255) }
```

# Background

The CSS property to change the background color of an element to XYZ 63.4842, 73.4793, 105.4447 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(170, 232, 255) }
```

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

```
.background{ background-color: rgb(170,  
232, 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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