

# Converting Colors

XYZ(49.5982, 62.1822,  
103.9960)

Have a look what the booklet for  
XYZ(49.5982, 62.1822, 103.9960)  
contains.

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# Color

**XYZ(49.6508, 62.2873,  
104.0135)**

# Conversions

## Conversions Part 1

Format	Color
Hex	66DEFF
RGB	102, 222, 255
RGB Percent	40%, 87%, 100%
CMY	0.6000, 0.1294, 0.0000
CMYK	0.60, 0.13, 0.00, 0.00
HSL	193°, 100%, 70%
HSV	193°, 60%, 100%
XYZ	49.6508, 62.2873, 104.0135
YIQ	189.8820, -82.1130, -15.1770

# Conversions

## Conversions Part 2

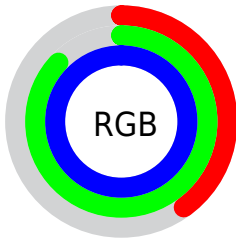
<b>Format</b>	<b>Color</b>
<a href="#">RYB</a>	102, 169, 255
Decimal	6741759
CIELab	83.07, -24.32, -26.17
CIELCh	83, 35.727, 227.094
Yxy	62.2873, 0.2299, 0.2884
Android (android.graphics.Color)	4284931839 (0xFF66DEFF)
YUV	189.8820, 32.1032, -77.0725
Hunter-Lab	78.9223, -25.8179, -22.8940

# Details

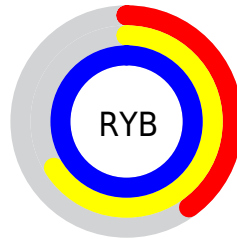
The XYZ color **49.6508, 62.2873, 104.0135** is a light color, and the websafe version is hex **33CCFF**. A complement of this color would be **52.3034, 39.5490, 17.4496**, and the grayscale version is **48.7327, 51.2706, 55.8337**.

A 20% lighter version of the original color is **69.3270, 86.7393, 107.6962**, and **24.1369, 31.7792, 58.2879** is the 20% darker color. If you saturate the color by 10%, you get **45.7561, 58.1475, 103.4197**, and if you desaturate by 10%, it is **54.4852, 66.9849, 104.6654**.

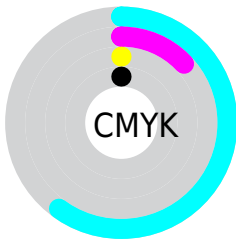
# Distribution



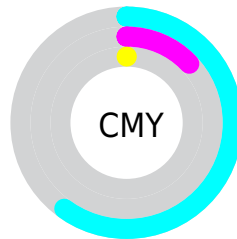
- Red (40%)
- Green (87%)
- Blue (100%)



- Red (40%)
- Yellow (66%)
- Blue (100%)



- Cyan (60%)
- Magenta (13%)
- Yellow (0%)
- Black (0%)



- Cyan (60%)
- Magenta (13%)
- Yellow (0%)

# Brightness & Saturation Gradients

These gradients show how the XYZ color 49.6508, 62.2873, 104.0135 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 49.6508, 62.2873, 104.0135 by changing the saturation by 10% instead.



49.6508, 62.2873,  
104.0135

49.6508, 62.2873,  
104.0135

375.7734,  
432.9783, 594.3413

35.3527, 45.2649,  
79.0211

88.8522, 108.1407,  
168.7616

24.1025, 31.6661,  
58.3917

114.4862,  
137.7404, 209.3544

15.5348, 21.1066,  
41.7069

144.6295,  
172.3013, 255.9844

9.2843, 13.2019,  
28.5480

179.6475,  
212.2079, 309.0701

4.9857, 7.5678,  
18.4965

219.9055,  
257.8445, 369.0301

2.2735, 3.8196,  
11.1339

265.7689,

0.7811, 1.5732,

309.5955, 436.2830

6.0417

317.6031,  
367.8453, 511.2472

■ 0.0000, 0.3394,  
2.8012

■ 0.0000, 0.0000,  
0.9941

■ 49.6508, 62.2873,  
104.0135

■ 49.6508, 62.2873,  
104.0135

■ 45.7561, 58.1475,  
103.4197

■ 54.4852, 66.9849,  
104.6654

■ 42.7108, 54.5143,  
102.8790

■ 60.3282, 72.2725,  
105.3781

■ 40.4156, 51.3373,  
102.3867

■ 67.2481, 78.1874,  
106.1551

■ 38.7053, 48.5305,  
101.9351

■ 75.3056, 84.7613,  
106.9993

■ 38.7048, 48.5295,  
101.9349

■ 84.5567, 92.0240,  
107.9135

95.0500, 100.0000,  
108.9000

# Harmonies

## Analogous

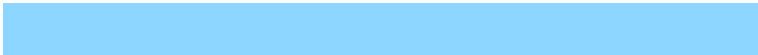
The Analogous color harmony consists of three colors that are next to each other on the color wheel.



46.1041, 62.2873, 81.1152



49.6508, 62.2873, 104.0135



55.9449, 62.2873, 118.3367

# Triad

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



49.6508, 62.2873, 104.0135



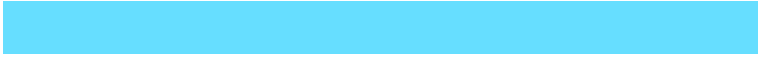
74.9005, 62.2873, 77.7765



54.9407, 62.2873, 34.7328

# Complementary

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



49.6508, 62.2873, 104.0135



52.3034, 39.5490, 17.4496

# 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.



62.5836, 62.2873, 34.2200



49.6508, 62.2873, 104.0135



74.5721, 62.2873, 56.0638

# Square

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



49.6508, 62.2873, 104.0135



70.7677, 62.2873, 101.1156



69.9061, 62.2873, 41.1794



48.9709, 62.2873, 42.7768

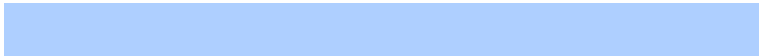


# Rectangle

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



49.6508, 62.2873, 104.0135



61.0565, 62.2873, 119.4259



69.9061, 62.2873, 41.1794



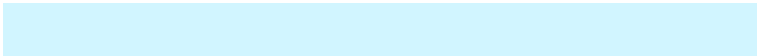
57.3858, 62.2873, 33.7473

# Sweetspot

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



49.6526, 62.2895, 104.0139



77.0556, 86.1555, 107.1761



45.4470, 76.0279, 34.3277



15.9506, 18.0079, 22.8851



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.



49.6526, 62.2895, 104.0139



45.0808, 57.3804, 103.3073



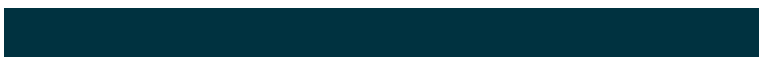
34.1056, 31.1956, 98.8315



18.2029, 19.7773, 23.1080



20.3381, 25.5858, 53.3012



2.0589, 2.6486, 5.2160



# Inverse Universe

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



59.1775, 36.0385, 72.9466



55.8362, 30.7445, 67.5522



66.4643, 67.8708, 22.1699



18.6150, 18.2293, 21.8559



27.0539, 13.3109, 29.9982



2.6739, 1.3119, 3.1300



# Previews

## White Background



This preview shows how the XYZ color 49.6508, 62.2873, 104.0135 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

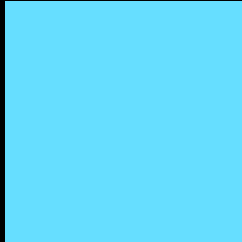
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the XYZ color 49.6508, 62.2873, 104.0135 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 49.6508, 62.2873, 104.0135**

## **Background**



This preview shows how black text looks on a background with the XYZ color 49.6508, 62.2873, 104.0135.



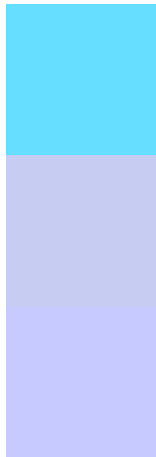
This preview shows how white text looks on a background with the XYZ color 49.6508, 62.2873,



# 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

49.6508, 62.2873, 104.0135

### Protanopia

60.9086, 61.6023, 92.6846

### Deuteranopia

62.4592, 61.4668, 103.1801



## Tritanopia

47.5065, 62.2089, 93.5081

# Trichromacy



## Original Color

49.6508, 62.2873, 104.0135

## Protanomaly

55.1870, 61.0905, 96.8787

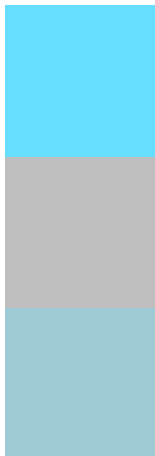
## Deuteranomaly

55.9547, 60.6075, 103.3570

## Tritanomaly

48.2132, 62.0874, 97.4387

# Monochromacy



## Original Color

49.6508, 62.2873, 104.0135

## Achromatopsia

48.9429, 51.4918, 56.0745

## Achromatomaly

47.3587, 54.3652, 71.6158

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 49.6508, 62.2873, 104.0135 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(102, 222, 255)` looks like.

```
.text, #text, p{  
    color:rgb(102, 222, 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(102, 222, 255) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(102, 222, 255) }
```

## Border

The CSS property to change the border of an element to XYZ 49.6508, 62.2873, 104.0135 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(102, 222, 255) }
```



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

```
.border{ border-color:rgb(102, 222, 255) }
```

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

Here you see how a box with a 4 pixel `rgb(102, 222, 255)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(102, 222, 255); -webkit-box-  
shadow:4px 4px 4px 4px rgb(102, 222, 255);  
box-shadow:4px 4px 4px 4px rgb(102, 222,  
255) }
```

# Background

The CSS property to change the background color of an element to XYZ 49.6508, 62.2873, 104.0135 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(102, 222, 255) }
```

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

```
.background{ background-color: rgb(102,  
222, 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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