

# Converting Colors

XYZ(49.6733, 60.6114, 91.9766)

Have a look what the booklet for  
XYZ(49.6733, 60.6114, 91.9766)  
contains.

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# Color

**XYZ(49.7433, 60.6437,  
92.3027)**

# Conversions

## Conversions Part 1

<b>Format</b>	<b>Color</b>
Hex	81D9F1
RGB	129, 217, 241
RGB Percent	51%, 85%, 95%
CMY	0.4941, 0.1490, 0.0549
CMYK	0.46, 0.10, 0.00, 0.05
HSL	193°, 80%, 73%
HSV	193°, 46%, 95%
XYZ	49.7433, 60.6437, 92.3027
YIQ	193.4240, -60.1520, -11.1920

# Conversions

## Conversions Part 2

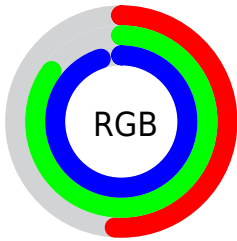
Format	Color
R <sub>Y</sub> B	129, 178, 241
Decimal	8509937
CIE Lab	82.19, -20.28, -20.00
CIE LCh	82, 28.483, 224.592
Yxy	60.6437, 0.2454, 0.2992
Android (android.graphics.Color)	4286700017 (0xFF81D9F1)
YUV	193.4240, 23.4550, -56.4998
Hunter-Lab	77.8741, -22.2599, -15.7635

# Details

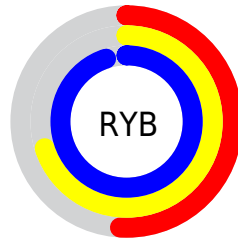
The XYZ color **49.7433, 60.6437, 92.3027** is a light color, and the websafe version is hex **66CCFF**. A complement of this color would be **51.6306, 43.0695, 26.3627**, and the grayscale version is **50.8313, 53.4785, 58.2381**.

A 20% lighter version of the original color is **74.3035, 89.3048, 107.9291**, and **24.2031, 30.6455, 50.5385** is the 20% darker color. If you saturate the color by 10%, you get **45.1953, 56.3552, 91.7157**, and if you desaturate by 10%, it is **55.1999, 65.4651, 92.9468**.

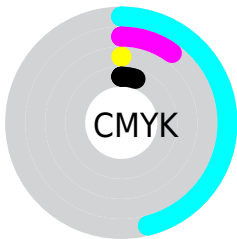
# Distribution



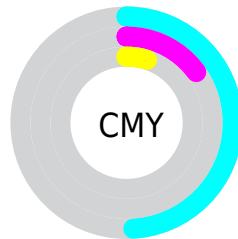
- Red (51%)
- Green (85%)
- Blue (95%)



- Red (51%)
- Yellow (70%)
- Blue (95%)



- Cyan (46%)
- Magenta (10%)
- Yellow (0%)
- Black (5%)



- Cyan (49%)
- Magenta (15%)
- Yellow (5%)

# Brightness & Saturation Gradients

These gradients show how the XYZ color 49.7433, 60.6437, 92.3027 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 49.7433, 60.6437, 92.3027 by changing the saturation by 10% instead.



■ 49.7433, 60.6437,  
92.3027

■ 49.7433, 60.6437,  
92.3027

376.1298,  
426.9664, 556.2555

■ 35.4264, 43.9377,  
69.3076

■ 88.9885, 105.7629,  
152.4962

■ 24.1596, 30.6215,  
50.4890

■ 114.6476,  
134.9448, 190.5317

■ 15.5774, 20.3108,  
35.4282

■ 144.8181,  
169.0542, 234.4178

■ 9.3146, 12.6212,  
23.7067

179.8654,  
208.4754, 284.5730

■ 5.0057, 7.1682,  
14.9060

220.1549,  
253.5928, 341.4158

■ 2.2854, 3.5675,  
8.6076

266.0519,

■ 0.7872, 1.4347,

304.7909, 405.3648

4.3928

317.9218,  
362.4539, 476.8385

■ 0.0000, 0.2421,  
1.8432

■ 0.0000, 0.0000,  
0.4562

■ 49.7433, 60.6437,  
92.3027

■ 49.7433, 60.6437,  
92.3027

■ 45.1953, 56.3552,  
91.7157

■ 55.1999, 65.4651,  
92.9468

■ 41.4883, 52.5603,  
91.1786

■ 61.6155, 70.8419,  
93.6465

■ 38.5540, 49.2243,  
90.6894

■ 69.0433, 76.8035,  
94.4057

■ 36.3104, 46.3046,  
90.2441

■ 77.5309, 83.3748,  
95.2268

■ 34.6547, 43.7475,  
89.8378

■ 87.1227, 90.5794,  
96.1118

■ 34.1528, 42.9017,  
89.7010

■ 90.6810, 94.7381,  
96.7270

■ 92.2906, 97.9573,  
97.2635

■ 92.8774, 99.1310,  
97.4592

# Harmonies

## Analogous

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



47.0952, 60.6437, 74.7885



49.7433, 60.6437, 92.3027



54.6029, 60.6437, 103.6563

# Triad

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



49.7433, 60.6437, 92.3027



69.6032, 60.6437, 75.2880



54.7575, 60.6437, 38.7429

# Complementary

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



49.7433, 60.6437, 92.3027



51.6306, 43.0695, 26.3627

# 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.



60.7877, 60.6437, 38.8291



49.7433, 60.6437, 92.3027



69.6519, 60.6437, 57.9848

# Square

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



49.7433, 60.6437, 92.3027



66.2025, 60.6437, 92.7231



66.3311, 60.6437, 45.2866



49.8497, 60.6437, 45.0260



# Rectangle

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



49.7433, 60.6437, 92.3027



58.5767, 60.6437, 105.1369



66.3311, 60.6437, 45.2866



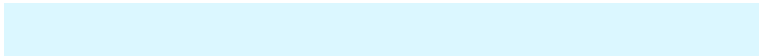
56.7133, 60.6437, 38.0683

# Sweetspot

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



49.7452, 60.6460, 92.3041



80.7218, 89.0627, 107.5441



46.1286, 69.8264, 40.4973



16.8516, 18.7290, 22.9768



0.0000, 0.0000, 0.0000



20.3446, 21.4041, 23.3091

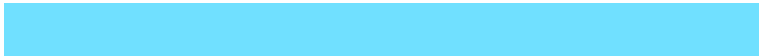


# Same Dimension

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



49.7452, 60.6460, 92.3041



51.5213, 64.2054, 104.2852



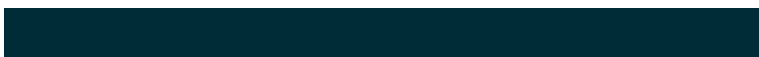
37.9584, 37.0725, 88.3752



15.9432, 17.3205, 20.2245



18.6224, 23.4691, 48.6764



1.6199, 2.0938, 4.0730



# Inverse Universe

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



56.6519, 39.4128, 70.2696



60.5654, 38.2962, 75.0068



62.6493, 65.1070, 30.0356



16.3008, 15.9700, 19.1400



24.7254, 12.1626, 27.5341

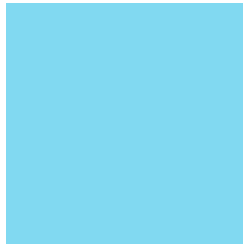


2.0926, 1.0261, 2.4785



# Previews

## White Background



This preview shows how the XYZ color 49.7433, 60.6437, 92.3027 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

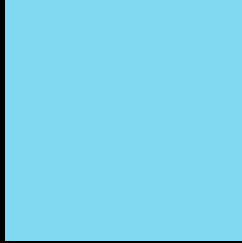
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the XYZ color 49.7433, 60.6437, 92.3027 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 49.7433, 60.6437, 92.3027**

## **Background**



This preview shows how black text looks on a background with the XYZ color 49.7433, 60.6437, 92.3027.



This preview shows how white text looks on a background with the XYZ color 49.7433, 60.6437,



# 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

49.7433, 60.6437, 92.3027

### Protanopia

59.0975, 60.1527, 84.0972

### Deuteranopia

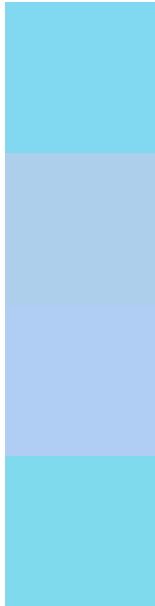
61.5335, 60.1359, 94.7504



## Tritanopia

48.8192, 60.6530, 87.7314

# Trichromacy



## Original Color

49.7433, 60.6437, 92.3027

## Protanomaly

54.7638, 59.6225, 87.2192

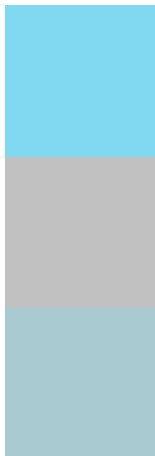
## Deuteranomaly

56.3049, 59.9044, 94.1831

## Tritanomaly

49.2596, 60.8464, 89.2690

# Monochromacy



## Original Color

49.7433, 60.6437, 92.3027

## Achromatopsia

50.6879, 53.3276, 58.0738

## Achromatomaly

49.3310, 55.4403, 69.0738

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 49.7433, 60.6437, 92.3027 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(129, 217, 241)` looks like.

```
.text, #text, p{  
    color:rgb(129, 217, 241)  
}
```

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(129, 217, 241) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(129, 217, 241) }
```

## Border

The CSS property to change the border of an element to XYZ 49.7433, 60.6437, 92.3027 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(129, 217, 241) }
```



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

```
.border{ border-color:rgb(129, 217, 241) }
```

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

Here you see how a box with a 4 pixel `rgb(129, 217, 241)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(129, 217, 241); -webkit-box-  
shadow:4px 4px 4px 4px rgb(129, 217, 241);  
box-shadow:4px 4px 4px 4px rgb(129, 217,  
241) }
```

# Background

The CSS property to change the background color of an element to XYZ 49.7433, 60.6437, 92.3027 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(129, 217, 241) }
```

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

```
.background{ background-color: rgb(129,  
217, 241) }
```

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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