

# Converting Colors

XYZ(23.2254, 23.7104, 77.8477)

Have a look what the booklet for  
XYZ(23.2254, 23.7104, 77.8477)  
contains.

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# Color

**XYZ(23.2286, 23.6045,  
78.1948)**

# Conversions

## Conversions Part 1

Format	Color
Hex	0089E6
RGB	0, 137, 230
RGB Percent	0%, 54%, 90%
CMY	0.9998, 0.4627, 0.0980
CMYK	1.00, 0.40, 0.00, 0.10
HSL	204°, 100%, 45%
HSV	204°, 100%, 90%
XYZ	23.2286, 23.6045, 78.1948
YIQ	106.6390, -111.5050, -0.1210

# Conversions

## Conversions Part 2

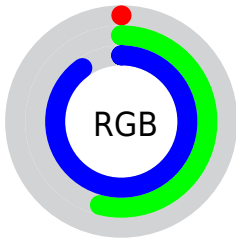
<b>Format</b>	<b>Color</b>
<b>RYB</b>	0, 86, 230
Decimal	35302
CIELab	55.69, 3.60, -55.50
CIELCh	56, 55.617, 273.711
Yxy	23.6045, 0.1858, 0.1888
Android (android.graphics.Color)	4278225382 (0xFF0089E6)
YUV	106.6390, 60.8170, -93.5224
Hunter-Lab	48.5845, 0.3194, -61.4158

# Details

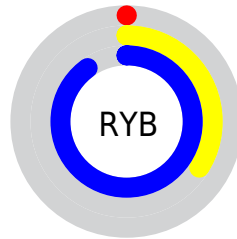
The XYZ color **23.2286, 23.6045, 78.1948** is a dark color, and the websafe version is hex **0099FF**. The color can be described as dark washed azure. A complement of this color would be **36.5534, 24.6626, 2.8355**, and the grayscale version is **13.7402, 14.4558, 15.7423**.

A 20% lighter version of the original color is **42.2892, 47.0502, 101.4605**, and **11.1297, 10.0354, 41.3948** is the 20% darker color. If you saturate the color by 10%, you get **23.2254, 23.5979, 78.1942**, and if you desaturate by 10%, it is **24.9635, 26.5475, 78.6720**.

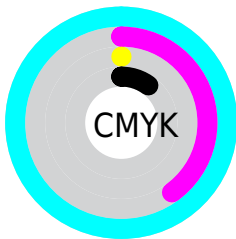
# Distribution



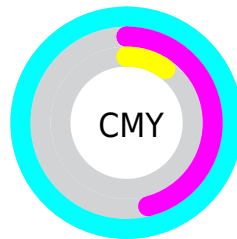
- Red (0%)
- Green (54%)
- Blue (90%)



- Red (0%)
- Yellow (34%)
- Blue (90%)



- Cyan (100%)
- Magenta (40%)
- Yellow (0%)
- Black (10%)



- Cyan (100%)
- Magenta (46%)
- Yellow (10%)

# Brightness & Saturation Gradients

These gradients show how the XYZ color 23.2286, 23.6045, 78.1948 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 23.2286, 23.6045, 78.1948 by changing the saturation by 10% instead.



■ 23.2286, 23.6045,  
78.1948

■ 23.2286, 23.6045,  
78.1948

261.4104,  
270.8148, 508.3736

■ 14.8840, 15.0405,  
57.7166

■ 48.2323, 49.3840,  
132.6131

■ 8.8238, 8.8478,  
41.1677

■ 65.6222, 67.3683,  
167.3902

■ 4.6826, 4.6420,  
28.1294

■ 86.7578, 89.2616,  
207.7708

■ 2.0951, 2.0388,  
18.1834

■ 112.0046,  
115.4480, 254.1733

■ 0.6866, 0.6299,  
10.9109

■ 141.7279,  
146.3122, 307.0163

■ 0.0000, 0.0000,  
5.8935

176.2931,

■ 0.0000, 0.0000,

182.2385, 366.7183

2.7127

216.0655,  
223.6112, 433.6979

■ 0.0000, 0.0000,  
0.9498

■ 0.0000, 0.0000,  
0.0000

■ 23.2286, 23.6045,  
78.1948

■ 23.2286, 23.6045,  
78.1948

■ 23.2254, 23.5979,  
78.1942

■ 24.9635, 26.5475,  
78.6720

■ 27.2349, 29.9403,  
79.2071

■ 30.1802, 33.8578,  
79.8081

■ 33.8795, 38.3452,  
80.4792

■ 38.4008, 43.4412,  
81.2246

■ 43.8036, 49.1801,  
82.0475

■ 50.1415, 55.5931,  
82.9513

■ 57.4637, 62.7088,  
83.9389

■ 65.8156, 70.5541,  
85.0130

# Harmonies

## Analogous

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



17.4864, 23.6045, 71.0431



23.2286, 23.6045, 78.1948



29.8527, 23.6045, 66.7115

# Triad

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



23.2286, 23.6045, 78.1948



34.0965, 23.6045, 10.8544



13.2326, 23.6045, 13.1942

# Complementary

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



23.2286, 23.6045, 78.1948



36.5534, 24.6626, 2.8355

# 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.



16.3612, 23.6045, 6.2958



23.2286, 23.6045, 78.1948



28.2398, 23.6045, 5.4570

# Square

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



23.2286, 23.6045, 78.1948



36.8253, 23.6045, 23.5206



21.6604, 23.6045, 4.2990



12.3879, 23.6045, 28.0128



# Rectangle

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



23.2286, 23.6045, 78.1948



33.6849, 23.6045, 52.1891



21.6604, 23.6045, 4.2990



14.0190, 23.6045, 10.1504

# Sweetspot

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



23.2296, 23.6052, 78.1954



63.1967, 70.0875, 104.8052



30.2312, 57.3678, 19.6134



12.7702, 14.2449, 22.3264



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.



23.2296, 23.6052, 78.1954



29.2563, 29.6326, 98.7854



14.5913, 6.3286, 75.3160



14.2929, 15.3073, 18.3456



13.2717, 13.6056, 44.3098



1.0713, 1.1866, 3.3045



# Inverse Universe

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



37.1495, 18.6306, 25.3053



46.8964, 23.5226, 31.7163



54.9482, 61.4522, 8.9671



14.7355, 14.5114, 16.8073



21.0925, 10.5712, 14.6478



1.6044, 0.7995, 1.3232



# Previews

## White Background



This preview shows how the XYZ color 23.2286, 23.6045, 78.1948 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

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 23.2286, 23.6045, 78.1948 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

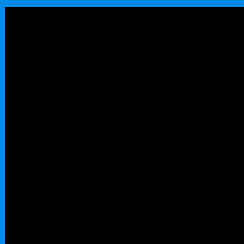
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA × Fail

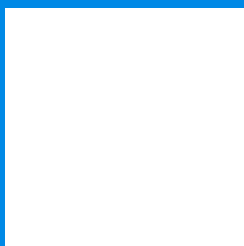
If you want to check with other color combinations, try the [Color Contrast Checker](#).

**XYZ 23.2286, 23.6045, 78.1948**

## **Background**



This preview shows how black text looks on a background with the XYZ color 23.2286, 23.6045, 78.1948.



This preview shows how white text looks on a background with the XYZ color 23.2286, 23.6045,



# 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

23.2286, 23.6045, 78.1948

### Protanopia

25.8161, 23.6201, 73.0105

### Deuteranopia

24.4702, 23.6040, 78.8676



## Tritanopia

16.7615, 23.6484, 36.0289

# Trichromacy



## Original Color

23.2286, 23.6045, 78.1948

## Protanomaly

23.9186, 23.1959, 75.1681

## Deuteranomaly

23.7475, 23.4375, 78.8736

## Tritanomaly

18.6250, 23.4072, 48.8838

# Monochromacy



## Original Color

23.2286, 23.6045, 78.1948

## Achromatopsia

13.9749, 14.7027, 16.0113

## Achromatomaly

14.5298, 16.4528, 32.1157

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 23.2286, 23.6045, 78.1948 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(0, 137, 230)` looks like.

```
.text, #text, p{  
    color:rgb(0, 137, 230)  
}
```

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(0, 137, 230) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(0, 137, 230) }
```

## Border

The CSS property to change the border of an element to XYZ 23.2286, 23.6045, 78.1948 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(0, 137, 230) }
```



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

```
.border{ border-color:rgb(0, 137, 230) }
```

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

Here you see how a box with a 4 pixel `rgb(0, 137, 230)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(0, 137, 230); -webkit-box-  
shadow:4px 4px 4px 4px rgb(0, 137, 230);  
box-shadow:4px 4px 4px 4px rgb(0, 137,  
230) }
```

# Background

The CSS property to change the background color of an element to XYZ 23.2286, 23.6045, 78.1948 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(0, 137, 230) }
```

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

```
.background{ background-color: rgb(0, 137,  
230) }
```

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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