

# Converting Colors

XYZ(23.1541, 28.7790, 49.6406)

Have a look what the booklet for  
XYZ(23.1541, 28.7790, 49.6406)  
contains.

<b>XYZ(23.2345, 28.8767, 49.6966)</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(23.2345, 28.8767,  
49.6966)**

# Conversions

## Conversions Part 1

<b>Format</b>	<b>Color</b>
Hex	469DB8
RGB	70, 157, 184
RGB Percent	27%, 62%, 72%
CMY	0.7255, 0.3843, 0.2784
CMYK	0.62, 0.15, 0.00, 0.28
HSL	194°, 45%, 50%
HSV	194°, 62%, 72%
XYZ	23.2345, 28.8767, 49.6966
YIQ	134.0650, -60.5190, -10.0470

# Conversions

## Conversions Part 2

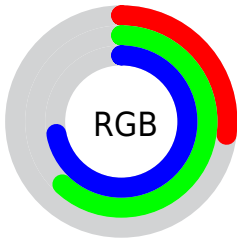
<b>Format</b>	<b>Color</b>
<b>RYB</b>	70, 119, 184
Decimal	4627896
CIELab	60.67, -17.85, -21.79
CIELCh	61, 28.172, 230.677
Yxy	28.8767, 0.2282, 0.2836
Android (android.graphics.Color)	4282817976 (0xFF469DB8)
YUV	134.0650, 24.6180, -56.1850
Hunter-Lab	53.7370, -16.8611, -17.2161

# Details

The XYZ color **23.2345, 28.8767, 49.6966** is a dark color, and the websafe version is hex **3399CC**. A complement of this color would be **25.1483, 19.1831, 8.1727**, and the grayscale version is **22.6132, 23.7908, 25.9082**.

A 20% lighter version of the original color is **48.3249, 58.0454, 91.0950**, and **9.2508, 11.9468, 23.2911** is the 20% darker color. If you saturate the color by 10%, you get **21.3809, 26.8466, 49.4030**, and if you desaturate by 10%, it is **25.5228, 31.1711, 50.0194**.

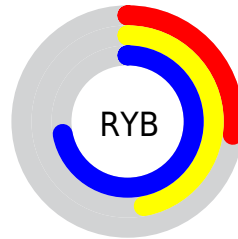
# Distribution



Red (27%)

Green (62%)

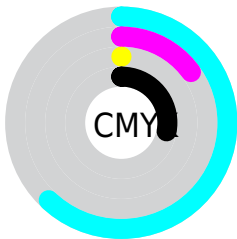
Blue (72%)



Red (27%)

Yellow (47%)

Blue (72%)

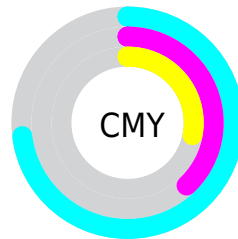


Cyan (62%)

Magenta (15%)

Yellow (0%)

Black (28%)



Cyan (73%)

Magenta (38%)

Yellow (28%)

# Brightness & Saturation Gradients

These gradients show how the XYZ color 23.2345, 28.8767, 49.6966 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 23.2345, 28.8767, 49.6966 by changing the saturation by 10% instead.



■ 23.2345, 28.8767,  
49.6966

■ 23.2345, 28.8767,  
49.6966

261.4401,  
296.6328, 402.1793

■ 14.8884, 18.9876,  
34.8029

■ 48.2419, 57.8811,  
91.1169

■ 8.8269, 11.6613,  
23.2287

■ 65.6339, 77.7652,  
118.4805

■ 4.6847, 6.5135,  
14.5556

■ 86.7720, 101.7497,  
150.8378

■ 2.0963, 3.1598,  
8.3650

■ 112.0214,  
130.2191, 188.6074

■ 0.6872, 1.2157,  
4.2383

■ 141.7476,  
163.5577, 232.2079

■ 0.0000, 0.0745,  
1.7569

176.3159,

■ 0.0000, 0.0000,

202.1499, 282.0576

0.3993

216.0916,  
246.3801, 338.5752

■ 0.0000, 0.0000,  
0.0000

■ 23.2345, 28.8767,  
49.6966

■ 23.2345, 28.8767,  
49.6966

■ 21.3809, 26.8466,  
49.4030

■ 25.5228, 31.1711,  
50.0194

■ 19.9205, 25.0572,  
49.1346

■ 28.2770, 33.7446,  
50.3710

■ 18.8081, 23.4855,  
48.8898

■ 31.5285, 36.6143,  
50.7535

■ 18.0917, 22.3404,  
48.7066

■ 35.3049, 39.7947,  
51.1684

■ 39.6320, 43.2997,  
51.6168

■ 44.5336, 47.1418,  
52.1001

■ 50.0321, 51.3330,  
52.6192

■ 56.1489, 55.8846,  
53.1754

■ 62.9041, 60.8073,  
53.7695

# Harmonies

## Analogous

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



21.3894, 28.8767, 39.0871



23.2345, 28.8767, 49.6966



26.3250, 28.8767, 55.7418

# Triad

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



23.2345, 28.8767, 49.6966



34.9716, 28.8767, 34.8122



25.0419, 28.8767, 16.1355

# Complementary

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



23.2345, 28.8767, 49.6966



25.1483, 19.1831, 8.1727

# 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.



28.5993, 28.8767, 15.4847



23.2345, 28.8767, 49.6966



34.5509, 28.8767, 24.8647

# Square

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



23.2345, 28.8767, 49.6966



33.2421, 28.8767, 45.9779



32.1389, 28.8767, 18.3142



22.3669, 28.8767, 20.3463



# Rectangle

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



23.2345, 28.8767, 49.6966



28.7674, 28.8767, 55.6212



32.1389, 28.8767, 18.3142



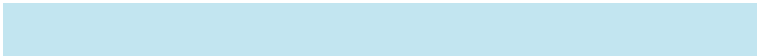
26.1665, 28.8767, 15.5362

# Sweetspot

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



23.2354, 28.8778, 49.6973



65.9675, 73.7543, 92.9638



21.8063, 36.4395, 17.0972



13.7642, 15.5245, 19.9927



88.6918, 93.3107, 101.6153



17.8044, 18.7317, 20.3988



# Same Dimension

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



23.2354, 28.8778, 49.6973



37.8136, 47.5543, 89.3905



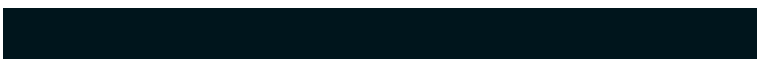
15.7742, 13.9553, 47.2102



9.0816, 9.8403, 11.5002



12.5250, 15.5096, 33.5866



0.4859, 0.6355, 1.1988



# Inverse Universe

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



28.0440, 17.0060, 33.7037



47.7308, 26.0161, 55.7443



32.3632, 33.6129, 10.5776



9.2875, 9.1254, 10.8614



16.9357, 8.3480, 18.0800



0.6194, 0.3032, 0.7553



# Previews

## White Background



This preview shows how the XYZ color 23.2345, 28.8767, 49.6966 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

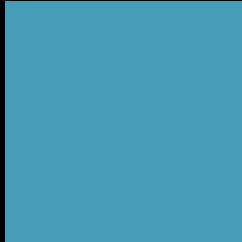
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the XYZ color 23.2345, 28.8767, 49.6966 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 23.2345, 28.8767, 49.6966**

## **Background**



This preview shows how black text looks on a background with the XYZ color 23.2345, 28.8767, 49.6966.



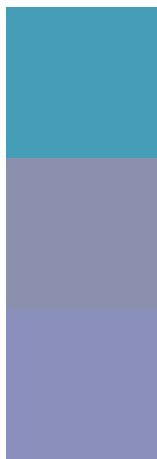
This preview shows how white text looks on a background with the XYZ color 23.2345, 28.8767,



# 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

23.2345, 28.8767, 49.6966

### Protanopia

28.3586, 28.5306, 44.5697

### Deuteranopia

29.2733, 28.6361, 50.9981



## Tritanopia

21.9589, 28.8648, 43.4438

# Trichromacy



## Original Color

23.2345, 28.8767, 49.6966

## Protanomaly

25.7228, 28.2867, 46.2236

## Deuteranomaly

26.2629, 28.2357, 50.5202

## Tritanomaly

22.3101, 28.7466, 45.4471

# Monochromacy



## Original Color

23.2345, 28.8767, 49.6966

## Achromatopsia

22.6597, 23.8398, 25.9615

## Achromatomaly

21.8960, 24.9925, 33.3758

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 23.2345, 28.8767, 49.6966 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(70, 157, 184)` looks like.

```
.text, #text, p{  
    color:rgb(70, 157, 184)  
}
```

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(70, 157, 184) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(70, 157, 184) }
```

## Border

The CSS property to change the border of an element to XYZ 23.2345, 28.8767, 49.6966 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(70, 157, 184) }
```



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

```
.border{ border-color:rgb(70, 157, 184) }
```

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

Here you see how a box with a 4 pixel `rgb(70, 157, 184)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(70, 157, 184); -webkit-box-  
shadow:4px 4px 4px 4px rgb(70, 157, 184);  
box-shadow:4px 4px 4px 4px rgb(70, 157,  
184) }
```

# Background

The CSS property to change the background color of an element to XYZ 23.2345, 28.8767, 49.6966 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(70, 157, 184) }
```

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

```
.background{ background-color: rgb(70, 157,  
184) }
```

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