

# Converting Colors

XYZ(23.3560, 27.5578, 7.8958)

Have a look what the booklet for  
XYZ(23.3560, 27.5578, 7.8958)  
contains.

<b>XYZ(23.2049, 27.3659, 7.9300)</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(23.2049, 27.3659,  
7.9300)**

# Conversions

## Conversions Part 1

<b>Format</b>	<b>Color</b>
Hex	939339
RGB	147, 147, 57
RGB Percent	58%, 58%, 22%
CMY	0.4235, 0.4235, 0.7765
CMYK	0.00, 0.00, 0.61, 0.42
HSL	60°, 44%, 40%
HSV	60°, 61%, 58%
XYZ	23.2049, 27.3659, 7.9300
YIQ	136.7400, 28.8900, -27.9900

# Conversions

## Conversions Part 2

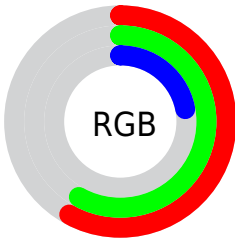
<b>Format</b>	<b>Color</b>
<b>RYB</b>	57, 147, 57
Decimal	9671481
CIELab	59.31, -12.12, 46.33
CIELCh	59, 47.884, 104.659
Yxy	27.3659, 0.3967, 0.4678
Android (android.graphics.Color)	4287861561 (0xFF939339)
YUV	136.7400, -39.3118, 8.9980
Hunter-Lab	52.3124, -12.3672, 27.6310

# Details

The XYZ color **23.2049, 27.3659, 7.9300** is a dark color, and the websafe version is hex **999933**. A complement of this color would be **8.4178, 5.9033, 28.3012**, and the grayscale version is **23.8164, 25.0567, 27.2867**.

A 20% lighter version of the original color is **48.2220, 55.5525, 22.3685**, and **8.8908, 10.9291, 1.6409** is the 20% darker color. If you saturate the color by 10%, you get **22.8902, 27.2410, 6.2706**, and if you desaturate by 10%, it is **23.6271, 27.5358, 10.1499**.

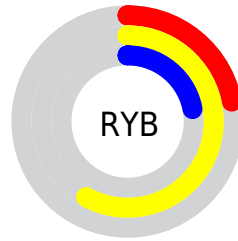
# Distribution



Red (58%)

Green (58%)

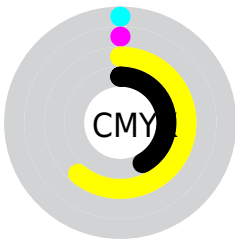
Blue (22%)



Red (22%)

Yellow (58%)

Blue (22%)

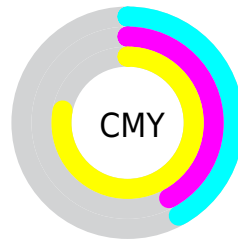


Cyan (0%)

Magenta (0%)

Yellow (61%)

Black (42%)



Cyan (42%)

Magenta (42%)


Yellow (78%)


# Brightness & Saturation Gradients

These gradients show how the XYZ color 23.2049, 27.3659, 7.9300 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 23.2049, 27.3659, 7.9300 by changing the saturation by 10% instead.





 23.2049, 27.3659,  
7.9300


 23.2049, 27.3659,  
7.9300


261.2914,  
289.4244, 185.0960


 14.8664, 17.8482,  
3.9631


 48.1937, 55.4705,  
22.3650


 8.8114, 10.8411,  
1.6051


 65.5748, 74.8261,  
33.6701

 4.6745, 5.9601,  
0.2945

 86.7007, 98.2299,  
48.2584

 2.0903, 2.8208,  
0.0000

 111.9369,  
126.0662, 66.5484

 0.6840, 1.0389,  
0.0000

 141.6488,  
158.7194, 88.9586

 0.0000, 0.0000,  
0.0000

 176.2015,

196.5739, 115.9076

215.9606,  
240.0141, 147.8139

■ 23.2049, 27.3659,  
7.9300

■ 23.2049, 27.3659,  
7.9300

■ 22.8902, 27.2410,  
6.2706

■ 23.6271, 27.5358,  
10.1499

■ 22.6716, 27.1536,  
5.1200

■ 24.1632, 27.7503,  
12.9724

■ 22.5386, 27.1004,  
4.4204

■ 24.8214, 28.0135,  
16.4375

■ 22.4665, 27.0715,  
4.0412

■ 25.6084, 28.3284,  
20.5816

■ 26.5308, 28.6973,  
25.4379

■ 27.5943, 29.1228,  
31.0379

■ 28.8047, 29.6069,  
37.4109

■ 30.1671, 30.1519,  
44.5847

■ 31.6866, 30.7597,  
52.5857

# Harmonies

## Analogous

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



29.1760, 27.3659, 7.9720



23.2049, 27.3659, 7.9300



18.7298, 27.3659, 11.9618

# Triad

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



23.2049, 27.3659, 7.9300



18.6522, 27.3659, 59.4924



38.7646, 27.3659, 39.3963

# Complementary

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



23.2049, 27.3659, 7.9300



8.4178, 5.9033, 28.3012

# 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.



34.9688, 27.3659, 59.9328



23.2049, 27.3659, 7.9300



23.0826, 27.3659, 74.2329

# Square

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



23.2049, 27.3659, 7.9300



16.3884, 27.3659, 38.9421



29.0335, 27.3659, 74.4194



38.8108, 27.3659, 22.2087



# Rectangle

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



23.2049, 27.3659, 7.9300



16.9329, 27.3659, 17.7977



29.0335, 27.3659, 74.4194



37.8618, 27.3659, 46.2496

# Sweetspot

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



23.2055, 27.3672, 7.9306



46.3046, 50.9077, 39.2057



14.2352, 9.4254, 4.9402



10.4745, 11.5828, 8.4452



71.1368, 74.8414, 81.5023



11.3376, 11.9280, 12.9896



# Same Dimension

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



23.2055, 27.3672, 7.9306



40.8443, 48.7234, 10.4580



16.6528, 23.9891, 7.6239



6.2654, 6.7447, 6.2121



19.4761, 23.4682, 3.5033



0.2384, 0.2872, 0.0429



# Inverse Universe

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



8.4178, 5.9033, 28.3012



12.0413, 6.9170, 50.1351



12.2099, 7.8582, 28.4787



5.4995, 5.6330, 7.2672



4.5658, 1.8263, 24.0429



0.0559, 0.0224, 0.2943



# Previews

## White Background



This preview shows how the XYZ color 23.2049, 27.3659, 7.9300 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 23.2049, 27.3659, 7.9300 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 23.2049, 27.3659, 7.9300**

## **Background**



This preview shows how black text looks on a background with the XYZ color 23.2049, 27.3659, 7.9300.



This preview shows how white text looks on a background with the XYZ color 23.2049, 27.3659,



# 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

23.2049, 27.3659, 7.9300

### Protanopia

24.8343, 27.3014, 7.7022

### Deuteranopia

27.7512, 27.2817, 8.0782



## Tritanopia

28.2236, 27.4148, 32.2378

# Trichromacy



## Original Color

23.2049, 27.3659, 7.9300

## Protanomaly

24.2046, 27.2006, 7.7159

## Deuteranomaly

25.8934, 27.1789, 8.0190

## Tritanomaly

25.8141, 27.0830, 20.3900

# Monochromacy



## Original Color

23.2049, 27.3659, 7.9300

## Achromatopsia

23.7775, 25.0158, 27.2422

## Achromatomaly

23.2162, 25.7952, 17.9427

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 23.2049, 27.3659, 7.9300 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(147, 147, 57)` looks like.

```
.text, #text, p{  
    color:rgb(147, 147, 57)  
}
```

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(147, 147, 57) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(147, 147, 57) }
```

## Border

The CSS property to change the border of an element to XYZ 23.2049, 27.3659, 7.9300 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(147, 147, 57) }
```



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

```
.border{ border-color:rgb(147, 147, 57) }
```

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

Here you see how a box with a 4 pixel `rgb(147, 147, 57)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(147, 147, 57); -webkit-box-  
shadow:4px 4px 4px 4px rgb(147, 147, 57);  
box-shadow:4px 4px 4px 4px rgb(147, 147,  
57) }
```

# Background

The CSS property to change the background color of an element to XYZ 23.2049, 27.3659, 7.9300 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(147, 147, 57) }
```

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

```
.background{ background-color: rgb(147,  
147, 57) }
```

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