

# Converting Colors

XYZ(23.7045, 33.5357, 33.3763)

Have a look what the booklet for  
XYZ(23.7045, 33.5357, 33.3763)  
contains.

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# Color

**XYZ(23.6651, 33.4822,  
33.2324)**

# Conversions

## Conversions Part 1

Format	Color
Hex	53AC94
RGB	83, 172, 148
RGB Percent	33%, 67%, 58%
CMY	0.6745, 0.3255, 0.4196
CMYK	0.52, 0.00, 0.14, 0.33
HSL	164°, 35%, 50%
HSV	164°, 52%, 67%
XYZ	23.6651, 33.4822, 33.2324
YIQ	142.6530, -45.3400, -26.3320

# Conversions

## Conversions Part 2

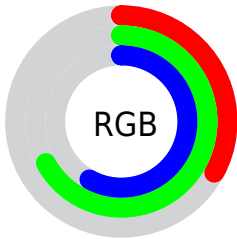
<b>Format</b>	<b>Color</b>
<b>RYB</b>	83, 134, 172
Decimal	5483668
CIELab	64.55, -32.64, 4.22
CIElCh	65, 32.915, 172.632
Yxy	33.4822, 0.2618, 0.3705
Android (android.graphics.Color)	4283673748 (0xFF53AC94)
YUV	142.6530, 2.6361, -52.3157
Hunter-Lab	57.8638, -28.2589, 6.4532

# Details

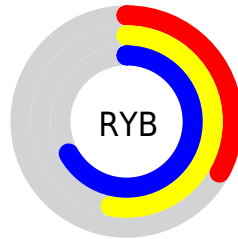
The XYZ color **23.6651, 33.4822, 33.2324** is a dark color, and the websafe version is hex **339999**. A complement of this color would be **22.7615, 16.0196, 15.8036**, and the grayscale version is **25.9737, 27.3264, 29.7584**.

A 20% lighter version of the original color is **49.0515, 65.2400, 65.8844**, and **9.0231, 14.1952, 13.5736** is the 20% darker color. If you saturate the color by 10%, you get **21.9721, 32.6518, 31.2753**, and if you desaturate by 10%, it is **25.7512, 34.5152, 35.2862**.

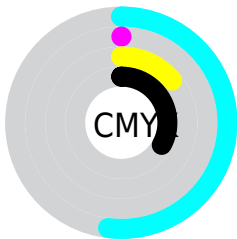
# Distribution



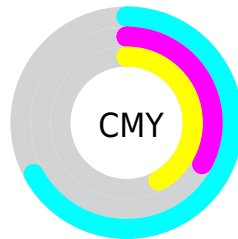
- Red (33%)
- Green (67%)
- Blue (58%)



- Red (33%)
- Yellow (53%)
- Blue (67%)



- Cyan (52%)
- Magenta (0%)
- Yellow (14%)
- Black (33%)




- Cyan (67%)
- Magenta (33%)
- Yellow (42%)


# Brightness & Saturation Gradients

These gradients show how the XYZ color 23.6651, 33.4822, 33.2324 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 23.6651, 33.4822, 33.2324 by changing the saturation by 10% instead.





 23.6651, 33.4822,  
33.2324


 23.6651, 33.4822,  
33.2324


263.5949,  
317.8170, 331.3597


 15.2088, 22.4961,  
22.0320


 48.9418, 65.1276,  
65.8584


 9.0533, 14.2219,  
13.6818


 66.4929, 86.5558,  
88.1210

 4.8334, 8.2751,  
7.7635


 87.8063, 112.2333,  
114.9081

 2.1836, 4.2715,  
3.8584

 113.2473,  
142.5448, 146.6382

 0.7341, 1.8266,  
1.5480

143.1813,  
177.8745, 183.7299

 0.0000, 0.5037,  
0.2533

177.9737,

 0.0000, 0.0000,

218.6068, 226.6017

0.0000

217.9898,  
265.1262, 275.6721

■ 23.6651, 33.4822,  
33.2324

■ 23.6651, 33.4822,  
33.2324

■ 21.9721, 32.6518,  
31.2753

■ 25.7512, 34.5152,  
35.2862

■ 20.6407, 32.0054,  
29.4103

■ 28.2532, 35.7600,  
37.4364

■ 19.6394, 31.5274,  
27.6359

■ 31.1954, 37.2300,  
39.6858

■ 18.9296, 31.1981,  
25.9491

■ 34.5994, 38.9364,  
42.0362

■ 18.4944, 31.0027,  
24.6187

■ 38.4854, 40.8894,  
44.4893

■ 42.8725, 43.0990,  
47.0470

■ 47.7785, 45.5742,  
49.7108

■ 53.2204, 48.3239,  
52.4824

■ 59.2146, 51.3565,  
55.3632

# Harmonies

## Analogous

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



25.1589, 33.4822, 22.8786



23.6651, 33.4822, 33.2324



24.1795, 33.4822, 47.3688

# Triad

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



23.6651, 33.4822, 33.2324



35.4354, 33.4822, 65.9969



37.6392, 33.4822, 19.4922

# Complementary

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



23.6651, 33.4822, 33.2324



22.7615, 16.0196, 15.8036

# 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.



40.9301, 33.4822, 27.3636



23.6651, 33.4822, 33.2324



39.5727, 33.4822, 54.5603

# Square

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



23.6651, 33.4822, 33.2324



30.6772, 33.4822, 68.6796



41.6704, 33.4822, 39.8825



32.9986, 33.4822, 16.3182



# Rectangle

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



23.6651, 33.4822, 33.2324



25.6186, 33.4822, 56.9816



41.6704, 33.4822, 39.8825



38.9580, 33.4822, 21.5676

# Sweetspot

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



23.6660, 33.4835, 33.2332



59.8542, 69.1728, 74.2968



22.5256, 33.3327, 13.4308



12.7441, 14.9007, 15.9634



82.5889, 86.8899, 94.6231



15.4596, 16.2647, 17.7123



# Same Dimension

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



23.6660, 33.4835, 33.2332



39.4911, 59.0533, 56.2633



22.3596, 27.5086, 43.1625



8.1427, 9.0347, 9.7767



13.7860, 23.0797, 18.4448



0.4047, 0.6505, 0.6248



# Inverse Universe

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



22.7615, 16.0196, 15.8036



37.6967, 23.8761, 21.2925



23.3549, 18.9547, 10.6118



8.0907, 8.0495, 8.7882



13.0535, 6.6839, 2.6611

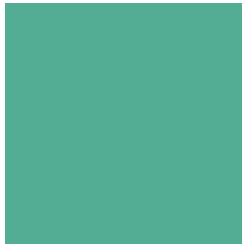


0.3861, 0.1951, 0.1950



# Previews

## White Background



This preview shows how the XYZ color 23.6651, 33.4822, 33.2324 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 23.6651, 33.4822, 33.2324 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 23.6651, 33.4822, 33.2324**

## **Background**



This preview shows how black text looks on a background with the XYZ color 23.6651, 33.4822, 33.2324.



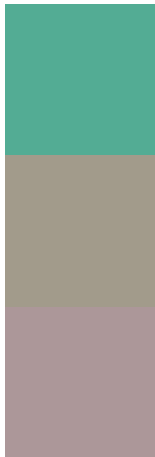
This preview shows how white text looks on a background with the XYZ color 23.6651, 33.4822,



# 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

23.6651, 33.4822, 33.2324

### Protanopia

31.2818, 32.9882, 29.1447

### Deuteranopia

33.8296, 33.2038, 34.7629



## Tritanopia

26.6734, 33.3008, 48.7379

# Trichromacy



## Original Color

23.6651, 33.4822, 33.2324



## Protanomaly

27.3002, 32.4293, 30.4118



## Deuteranomaly

28.7993, 32.6061, 34.0539



## Tritanomaly

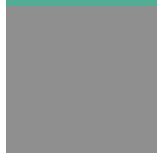
25.4692, 33.3644, 42.6337

# Monochromacy



## Original Color

23.6651, 33.4822, 33.2324



## Achromatopsia

26.1081, 27.4677, 29.9124



## Achromatomaly

24.5516, 29.2205, 31.1342

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 23.6651, 33.4822, 33.2324 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(83, 172, 148)` looks like.

```
.text, #text, p{  
    color:rgb(83, 172, 148)  
}
```

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(83, 172, 148) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(83, 172, 148) }
```

## Border

The CSS property to change the border of an element to XYZ 23.6651, 33.4822, 33.2324 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(83, 172, 148) }
```



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

```
.border{ border-color:rgb(83, 172, 148) }
```

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

Here you see how a box with a 4 pixel `rgb(83, 172, 148)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(83, 172, 148); -webkit-box-  
shadow:4px 4px 4px 4px rgb(83, 172, 148);  
box-shadow:4px 4px 4px 4px rgb(83, 172,  
148) }
```

# Background

The CSS property to change the background color of an element to XYZ 23.6651, 33.4822, 33.2324 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(83, 172, 148) }
```

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

```
.background{ background-color: rgb(83, 172,  
148) }
```

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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