

# Converting Colors

XYZ(23.6657, 34.0473, 21.3192)

Have a look what the booklet for  
XYZ(23.6657, 34.0473, 21.3192)  
contains.

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# Color

**XYZ(23.6898, 34.0451,  
21.2424)**

# Conversions

## Conversions Part 1

Format	Color
Hex	68AD72
RGB	104, 173, 114
RGB Percent	41%, 68%, 45%
CMY	0.5922, 0.3216, 0.5529
CMYK	0.40, 0.00, 0.34, 0.32
HSL	129°, 30%, 54%
HSV	129°, 40%, 68%
XYZ	23.6898, 34.0451, 21.2424
YIQ	145.6430, -22.1850, -32.9770

# Conversions

## Conversions Part 2

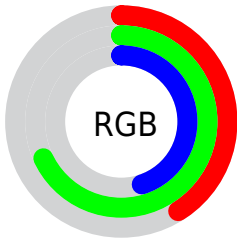
<b>Format</b>	<b>Color</b>
<b>RYB</b>	104, 164, 173
Decimal	6860146
CIELab	65.00, -34.47, 23.66
CIELCh	65, 41.806, 145.538
Yxy	34.0451, 0.3000, 0.4311
Android (android.graphics.Color)	4285050226 (0xFF68AD72)
YUV	145.6430, -15.6000, -36.5209
Hunter-Lab	58.3482, -29.6370, 19.2584

# Details

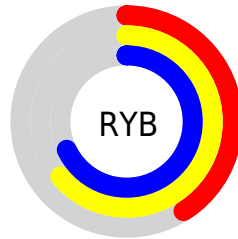
The XYZ color **23.6898, 34.0451, 21.2424** is a dark color, and the websafe version is hex **669966**. A complement of this color would be **28.7959, 21.4300, 37.2704**, and the grayscale version is **27.2445, 28.6634, 31.2144**.

A 20% lighter version of the original color is **49.0028, 66.0609, 46.2447**, and **9.0358, 14.5184, 7.3271** is the 20% darker color. If you saturate the color by 10%, you get **21.1090, 32.8052, 17.0763**, and if you desaturate by 10%, it is **26.8206, 35.5547, 26.1466**.

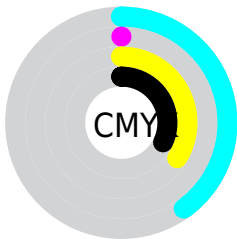
# Distribution



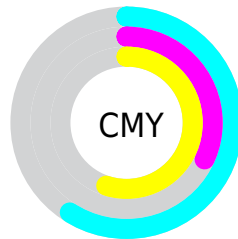
- Red (41%)
- Green (68%)
- Blue (45%)



- Red (41%)
- Yellow (64%)
- Blue (68%)



- Cyan (40%)
- Magenta (0%)
- Yellow (34%)
- Black (32%)




- Cyan (59%)
- Magenta (32%)
- Yellow (55%)


# Brightness & Saturation Gradients

These gradients show how the XYZ color 23.6898, 34.0451, 21.2424 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 23.6898, 34.0451, 21.2424 by changing the saturation by 10% instead.




 23.6898, 34.0451,  
21.2424

 23.6898, 34.0451,  
21.2424


263.7181,  
320.3331, 271.3872


 15.2272, 22.9282,  
13.1083


 48.9819, 66.0038,  
46.3766


 9.0663, 14.5405,  
7.3716


 66.5421, 87.6144,  
64.2139

 4.8419, 8.4976,  
3.6136


 87.8654, 113.4918,  
86.1226

 2.1886, 4.4149,  
1.4159

 113.3174,  
144.0202, 112.5213

 0.7367, 1.9083,  
0.1540

143.2633,  
179.5842, 143.8286

 0.0000, 0.5533,  
0.0000

178.0685,

 0.0000, 0.0000,

220.5681, 180.4630

0.0000

218.0983,  
267.3562, 222.8430

■ 23.6898, 34.0451,  
21.2424

■ 23.6898, 34.0451,  
21.2424

■ 21.1090, 32.8052,  
17.0763

■ 26.8206, 35.5547,  
26.1466

■ 19.0436, 31.8150,  
13.6104

■ 30.5280, 37.3442,  
31.8199

■ 17.4592, 31.0586,  
10.8069


■ 34.8401, 39.4284,  
38.2941


■ 16.3161, 30.5165,  
8.6234


■ 39.7824, 41.8197,  
45.5987


■ 15.5681, 30.1657,  
7.0128

■ 45.3789, 44.5299,  
53.7617


 15.1248, 29.9610,  
5.9194

 51.6523, 47.5702,  
62.8096

 15.1205, 29.9589,  
5.9096

 58.6244, 50.9513,  
72.7681

 66.3157, 54.6832,  
83.6615

 72.9942, 57.8724,  
95.4314

# Harmonies

## Analogous

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



27.6018, 34.0451, 14.4143



23.6898, 34.0451, 21.2424



22.0984, 34.0451, 34.5393

# Triad

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



23.6898, 34.0451, 21.2424



31.4630, 34.0451, 81.1498



44.0213, 34.0451, 24.4899

# Complementary

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



23.6898, 34.0451, 21.2424



28.7959, 21.4300, 37.2704

# 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.



45.3863, 34.0451, 39.7199



23.6898, 34.0451, 21.2424



37.6333, 34.0451, 75.9513

# Square

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



23.6898, 34.0451, 21.2424



26.2169, 34.0451, 71.8496



42.9203, 34.0451, 59.2782



39.3922, 34.0451, 15.8385



# Rectangle

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



23.6898, 34.0451, 21.2424



22.4019, 34.0451, 46.7215



42.9203, 34.0451, 59.2782



44.8998, 34.0451, 28.8474

# Sweetspot

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



23.6907, 34.0465, 21.2432



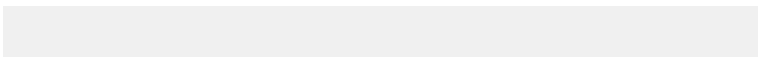
60.4998, 69.6954, 65.7536



32.7122, 38.7595, 18.8543



12.9331, 15.0425, 13.9683



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.



23.6907, 34.0465, 21.2432



38.2429, 58.9610, 31.3021



25.9751, 34.9603, 33.2727



7.9500, 8.9576, 8.7619



11.1212, 22.0138, 4.4121



0.3236, 0.6181, 0.1978



# Inverse Universe

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



28.7959, 21.4300, 37.2704



48.6721, 33.1543, 64.0191



26.1674, 20.3786, 23.4286



8.2864, 8.1278, 9.8191



16.5996, 8.1024, 21.3345



0.4751, 0.2307, 0.6639



# Previews

## White Background



This preview shows how the XYZ color 23.6898, 34.0451, 21.2424 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 23.6898, 34.0451, 21.2424 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 23.6898, 34.0451, 21.2424**

## **Background**



This preview shows how black text looks on a background with the XYZ color 23.6898, 34.0451, 21.2424.



This preview shows how white text looks on a background with the XYZ color 23.6898, 34.0451,



# 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

23.6898, 34.0451, 21.2424

### Protanopia

31.2884, 33.7215, 18.7697

### Deuteranopia

34.4040, 33.7794, 22.1596



## Tritanopia

28.8271, 33.9065, 47.1447

# Trichromacy



## Original Color

23.6898, 34.0451, 21.2424

## Protanomaly

27.7657, 33.4312, 19.7413

## Deuteranomaly

29.3193, 33.1485, 21.6826

## Tritanomaly

26.6011, 33.8166, 36.1356

# Monochromacy



## Original Color

23.6898, 34.0451, 21.2424

## Achromatopsia

27.3213, 28.7441, 31.3023

## Achromatomaly

25.5516, 30.3235, 27.0606

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 23.6898, 34.0451, 21.2424 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(104, 173, 114)` looks like.

```
.text, #text, p{  
    color:rgb(104, 173, 114)  
}
```

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(104, 173, 114) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(104, 173, 114) }
```

## Border

The CSS property to change the border of an element to XYZ 23.6898, 34.0451, 21.2424 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(104, 173, 114) }
```



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

```
.border{ border-color:rgb(104, 173, 114) }
```

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

Here you see how a box with a 4 pixel `rgb(104, 173, 114)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(104, 173, 114); -webkit-box-  
shadow:4px 4px 4px 4px rgb(104, 173, 114);  
box-shadow:4px 4px 4px 4px rgb(104, 173,  
114) }
```

# Background

The CSS property to change the background color of an element to XYZ 23.6898, 34.0451, 21.2424 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(104, 173, 114) }
```

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

```
.background{ background-color: rgb(104,  
173, 114) }
```

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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