

# Converting Colors

XYZ(24.2700, 34.9174, 24.3977)

Have a look what the booklet for  
XYZ(24.2700, 34.9174, 24.3977)  
contains.

<b>XYZ(24.2236, 34.8245, 24.5139)</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(24.2236, 34.8245,  
24.5139)**

# Conversions

## Conversions Part 1

Format	Color
Hex	64AF7C
RGB	100, 175, 124
RGB Percent	39%, 69%, 49%
CMY	0.6078, 0.3137, 0.5137
CMYK	0.43, 0.00, 0.29, 0.31
HSL	139°, 32%, 54%
HSV	139°, 43%, 69%
XYZ	24.2236, 34.8245, 24.5139
YIQ	146.7610, -28.3290, -31.7610

# Conversions

## Conversions Part 2

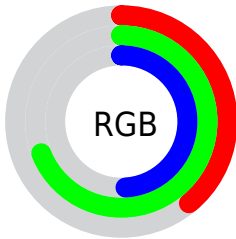
<b>Format</b>	<b>Color</b>
<b>RYB</b>	100, 157, 175
Decimal	6598524
CIELab	65.61, -34.77, 19.04
CIElCh	66, 39.640, 151.292
Yxy	34.8245, 0.2899, 0.4168
Android (android.graphics.Color)	4284788604 (0xFF64AF7C)
YUV	146.7610, -11.2212, -41.0094
Hunter-Lab	59.0123, -30.0001, 16.6793

# Details

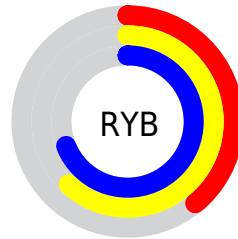
The XYZ color **24.2236, 34.8245, 24.5139** is a dark color, and the websafe version is hex **669966**. A complement of this color would be **27.8234, 20.4634, 31.7628**, and the grayscale version is **27.6884, 29.1304, 31.7230**.

A 20% lighter version of the original color is **49.8382, 67.1962, 51.9384**, and **9.3562, 15.0079, 9.0603** is the 20% darker color. If you saturate the color by 10%, you get **21.7843, 33.6498, 20.7058**, and if you desaturate by 10%, it is **27.1713, 36.2528, 28.8215**.

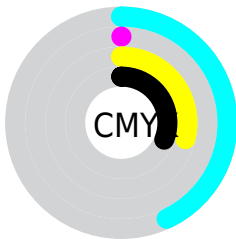
# Distribution



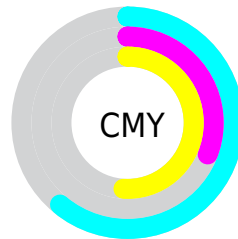
- Red (39%)
- Green (69%)
- Blue (49%)



- Red (39%)
- Yellow (62%)
- Blue (69%)



- Cyan (43%)
- Magenta (0%)
- Yellow (29%)
- Black (31%)




- Cyan (61%)
- Magenta (31%)
- Yellow (51%)


# Brightness & Saturation Gradients

These gradients show how the XYZ color 24.2236, 34.8245, 24.5139 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 24.2236, 34.8245, 24.5139 by changing the saturation by 10% instead.





 24.2236, 34.8245,  
24.5139


 24.2236, 34.8245,  
24.5139


266.3685,  
323.7930, 288.7782


 15.6252, 23.5277,  
15.4996

 49.8469, 67.2138,  
51.8218


 9.3485, 14.9837,  
9.0202


 67.6024, 89.0751,  
70.9525

 5.0281, 8.8079,  
4.6574


 89.1411, 115.2267,  
94.2923

 2.2987, 4.6161,  
1.9925

 114.8283,  
146.0530, 122.2599

 0.7940, 2.0238,  
0.5506

145.0292,  
181.9384, 155.2737

 0.0000, 0.6213,  
0.0000

180.1093,

 0.0000, 0.0000,

223.2673, 193.7523

0.0000

220.4340,  
270.4240, 238.1143

■ 24.2236, 34.8245,  
24.5139

■ 24.2236, 34.8245,  
24.5139

■ 21.7843, 33.6498,  
20.7058

■ 27.1713, 36.2528,  
28.8215

■ 19.8207, 32.7091,  
17.3765

■ 30.6523, 37.9442,  
33.6434

■ 18.3001, 31.9871,  
14.5076


■ 34.6929, 39.9129,  
38.9969


■ 17.1845, 31.4647,  
12.0783


■ 39.3171, 42.1709,  
44.8977


■ 16.4290, 31.1190,  
10.0661


■ 44.5472, 44.7295,  
51.3606

 16.0444, 30.9468,  
8.8691

 50.4044, 47.5993,  
58.4003

 56.9090, 50.7904,  
66.0305

 64.0803, 54.3125,  
74.2647

 71.0092, 57.6967,  
83.0726

# Harmonies

## Analogous

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



27.6214, 34.8245, 16.5971



24.2236, 34.8245, 24.5139



23.1259, 34.8245, 38.6451

# Triad

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



24.2236, 34.8245, 24.5139



33.3526, 34.8245, 79.8258



43.6117, 34.8245, 23.5901

# Complementary

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



24.2236, 34.8245, 24.5139



27.8234, 20.4634, 31.7628

# 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.



45.5938, 34.8245, 37.2000



24.2236, 34.8245, 24.5139



39.2582, 34.8245, 72.4233

# Square

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



24.2236, 34.8245, 24.5139



28.0105, 34.8245, 73.5413



43.9156, 34.8245, 55.4880



38.7706, 34.8245, 16.1840



# Rectangle

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



24.2236, 34.8245, 24.5139



23.7303, 34.8245, 50.7854



43.9156, 34.8245, 55.4880



44.6583, 34.8245, 27.4312

# Sweetspot

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



24.2245, 34.8259, 24.5147



61.8472, 71.3410, 69.4699



30.4404, 38.1849, 17.8230



13.3787, 15.6771, 14.9603



84.5950, 89.0005, 96.9216



16.2198, 17.0645, 18.5832



# Same Dimension

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



24.2245, 34.8259, 24.5147



39.4014, 60.4495, 37.7093



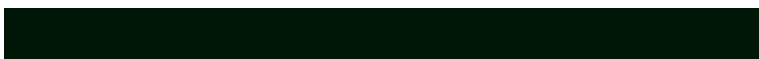
27.0417, 35.9528, 39.3496



8.0062, 8.9800, 9.0575



11.5148, 22.1712, 6.4844



0.3456, 0.6269, 0.3137



# Inverse Universe

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



27.8234, 20.4634, 31.7628



46.6543, 31.4504, 52.2765



25.2604, 19.4382, 18.2662



8.2264, 8.1038, 9.5029



15.0742, 7.4922, 13.3019



0.4428, 0.2178, 0.4936



# Previews

## White Background



This preview shows how the XYZ color 24.2236, 34.8245, 24.5139 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 24.2236, 34.8245, 24.5139 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

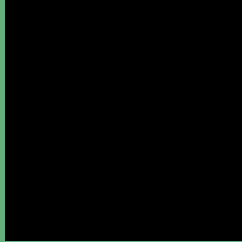
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

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

**XYZ 24.2236, 34.8245, 24.5139**

## **Background**



This preview shows how black text looks on a background with the XYZ color 24.2236, 34.8245, 24.5139.



This preview shows how white text looks on a background with the XYZ color 24.2236, 34.8245,



# 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

24.2236, 34.8245, 24.5139

### Protanopia

32.0153, 34.2841, 21.7597

### Deuteranopia

34.9578, 34.2318, 25.5338



## Tritanopia

29.1532, 34.8522, 48.9067

# Trichromacy



## Original Color

24.2236, 34.8245, 24.5139



## Protanomaly

28.3427, 33.9267, 22.8240



## Deuteranomaly

29.5384, 33.4462, 24.9776



## Tritanomaly

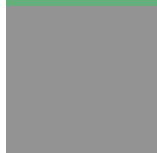
27.0924, 34.8520, 38.5569

# Monochromacy



## Original Color

24.2236, 34.8245, 24.5139



## Achromatopsia

27.7328, 29.1771, 31.7738



## Achromatomaly

25.9231, 30.7238, 28.9901

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 24.2236, 34.8245, 24.5139 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(100, 175, 124)` looks like.

```
.text, #text, p{  
    color:rgb(100, 175, 124)  
}
```

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(100, 175, 124) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(100, 175, 124) }
```

## Border

The CSS property to change the border of an element to XYZ 24.2236, 34.8245, 24.5139 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(100, 175, 124) }
```



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

```
.border{ border-color:rgb(100, 175, 124) }
```

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

Here you see how a box with a 4 pixel `rgb(100, 175, 124)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(100, 175, 124); -webkit-box-  
shadow:4px 4px 4px 4px rgb(100, 175, 124);  
box-shadow:4px 4px 4px 4px rgb(100, 175,  
124) }
```

# Background

The CSS property to change the background color of an element to XYZ 24.2236, 34.8245, 24.5139 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(100, 175, 124) }
```

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

```
.background{ background-color: rgb(100,  
175, 124) }
```

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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