

# Converting Colors

XYZ(24.9207, 33.0290, 20.2217)

Have a look what the booklet for  
XYZ(24.9207, 33.0290, 20.2217)  
contains.

<b>XYZ(24.8563, 32.9961, 20.0977)</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(24.8563, 32.9961,  
20.0977)**

# Conversions

## Conversions Part 1

Format	Color
Hex	7BA76F
RGB	123, 167, 111
RGB Percent	48%, 65%, 44%
CMY	0.5176, 0.3451, 0.5647
CMYK	0.26, 0.00, 0.34, 0.35
HSL	107°, 24%, 55%
HSV	107°, 34%, 65%
XYZ	24.8563, 32.9961, 20.0977
YIQ	147.4600, -8.2480, -26.7440

# Conversions

## Conversions Part 2

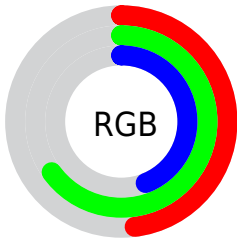
<b>Format</b>	<b>Color</b>
<b>RYB</b>	111, 167, 155
Decimal	8103791
CIELab	64.16, -25.76, 24.33
CIElCh	64, 35.435, 136.640
Yxy	32.9961, 0.3189, 0.4233
Android (android.graphics.Color)	4286293871 (0xFF7BA76F)
YUV	147.4600, -17.9748, -21.4514
Hunter-Lab	57.4422, -23.2837, 19.4654

# Details

The XYZ color **24.8563, 32.9961, 20.0977** is a dark color, and the websafe version is hex **669966**. A complement of this color would be **26.1786, 21.1284, 39.2595**, and the grayscale version is **27.9991, 29.4572, 32.0789**.

A 20% lighter version of the original color is **50.8636, 64.2340, 44.3679**, and **9.6727, 13.9870, 6.7474** is the 20% darker color. If you saturate the color by 10%, you get **22.2686, 31.7596, 15.6172**, and if you desaturate by 10%, it is **27.8693, 34.4340, 25.4969**.

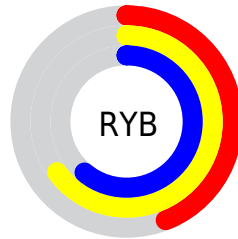
# Distribution



Red (48%)

Green (65%)

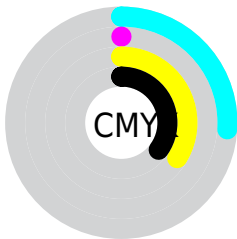
Blue (44%)



Red (44%)

Yellow (65%)

Blue (61%)

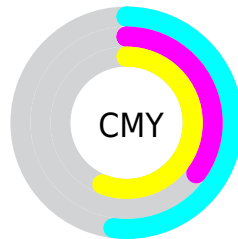


Cyan (26%)

Magenta (0%)

Yellow (34%)

Black (35%)



Cyan (52%)

Magenta (35%)


Yellow (56%)


# Brightness & Saturation Gradients

These gradients show how the XYZ color 24.8563, 32.9961, 20.0977 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 24.8563, 32.9961, 20.0977 by changing the saturation by 10% instead.





 24.8563, 32.9961,  
20.0977


 24.8563, 32.9961,  
20.0977


269.4824,  
315.6322, 265.0652


 16.0982, 22.1235,  
12.2813


 50.8686, 64.3694,  
44.4420


 9.6849, 13.9476,  
6.8107


 68.8535, 85.6389,  
61.8071

 5.2512, 8.0843,  
3.2673


 90.6446, 111.1428,  
83.1921

 2.4317, 4.1489,  
1.2327

 116.6075,  
141.2655, 109.0155

 0.8609, 1.7572,  
0.0057

147.1073,  
176.3914, 139.6961

 0.0000, 0.4603,  
0.0000

182.5095,

 0.0000, 0.0000,

216.9049, 175.6522

0.0000

223.1794,  
263.1903, 217.3024

■ 24.8563, 32.9961,  
20.0977

■ 24.8563, 32.9961,  
20.0977

■ 22.2686, 31.7596,  
15.6172

■ 27.8693, 34.4340,  
25.4969

■ 20.0840, 30.7111,  
12.0022

■ 31.3234, 36.0774,  
31.8598

■ 18.2825, 29.8426,  
9.1974


■ 35.2365, 37.9355,  
39.2308


■ 16.8406, 29.1434,  
7.1403


■ 39.6247, 40.0159,  
47.6513


■ 15.7327, 28.6016,  
5.7589


■ 44.5037, 42.3257,  
57.1600


 14.9289, 28.2039,  
4.9676

 49.8880, 44.8716,  
67.7938

 14.5393, 28.0100,  
4.6402

 55.7918, 47.6602,  
79.5879

 62.2286, 50.6977,  
92.5759

 68.1794, 53.5773,  
101.3557

# Harmonies

## Analogous

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



28.6789, 32.9961, 15.4214



24.8563, 32.9961, 20.0977



22.8792, 32.9961, 29.9126

# Triad

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



24.8563, 32.9961, 20.0977



29.1846, 32.9961, 70.0793



41.5453, 32.9961, 28.5803

# Complementary

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



24.8563, 32.9961, 20.0977



26.1786, 21.1284, 39.2595

# 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.



41.7180, 32.9961, 42.6983



24.8563, 32.9961, 20.0977



34.2070, 32.9961, 69.4419

# Square

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



24.8563, 32.9961, 20.0977



25.1924, 32.9961, 59.9977



38.9136, 32.9961, 58.4366



38.4642, 32.9961, 19.3477



# Rectangle

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



24.8563, 32.9961, 20.0977



22.7204, 32.9961, 39.2185



38.9136, 32.9961, 58.4366



41.9560, 32.9961, 32.8253

# Sweetspot

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



24.8571, 32.9975, 20.0984



58.3517, 65.6811, 61.2765



30.5062, 32.7631, 19.7554



12.8519, 14.6003, 13.3262



80.6108, 84.8088, 92.3568



14.7206, 15.4872, 16.8656



# Same Dimension

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



24.8571, 32.9975, 20.0984



41.1073, 57.4644, 30.0618



24.1974, 32.5473, 25.0408



7.5814, 8.4823, 8.0269



11.1602, 21.4506, 3.5522



0.3120, 0.5427, 0.0883



# Inverse Universe

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



26.1786, 21.1284, 39.2595



43.8158, 33.0048, 69.5365



27.2188, 21.8239, 32.1142



7.6823, 7.5843, 9.4774



12.5680, 5.8625, 28.4447



0.3440, 0.1624, 0.6939



# Previews

## White Background



This preview shows how the XYZ color 24.8563, 32.9961, 20.0977 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 24.8563, 32.9961, 20.0977 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

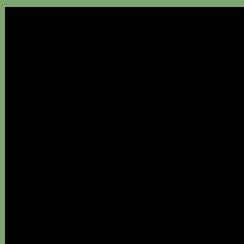
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

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

**XYZ 24.8563, 32.9961, 20.0977**

## **Background**



This preview shows how black text looks on a background with the XYZ color 24.8563, 32.9961, 20.0977.



This preview shows how white text looks on a background with the XYZ color 24.8563, 32.9961,



# 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

24.8563, 32.9961, 20.0977

### Protanopia

30.4713, 32.8081, 18.3623

### Deuteranopia

33.3704, 32.8000, 20.7919



## Tritanopia

29.5174, 32.7614, 43.7976

# Trichromacy



## Original Color

24.8563, 32.9961, 20.0977

## Protanomaly

28.0538, 32.5544, 18.9924

## Deuteranomaly

29.6237, 32.5689, 20.6447

## Tritanomaly

27.4786, 32.7098, 33.7195

# Monochromacy



## Original Color

24.8563, 32.9961, 20.0977

## Achromatopsia

27.7328, 29.1771, 31.7738

## Achromatomaly

26.3399, 30.2357, 27.0021

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 24.8563, 32.9961, 20.0977 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(123, 167, 111)` looks like.

```
.text, #text, p{  
    color:rgb(123, 167, 111)  
}
```

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(123, 167, 111) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(123, 167, 111) }
```

## Border

The CSS property to change the border of an element to XYZ 24.8563, 32.9961, 20.0977 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(123, 167, 111) }
```



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

```
.border{ border-color:rgb(123, 167, 111) }
```

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

Here you see how a box with a 4 pixel `rgb(123, 167, 111)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(123, 167, 111); -webkit-box-  
shadow:4px 4px 4px 4px rgb(123, 167, 111);  
box-shadow:4px 4px 4px 4px rgb(123, 167,  
111) }
```

# Background

The CSS property to change the background color of an element to XYZ 24.8563, 32.9961, 20.0977 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(123, 167, 111) }
```

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

```
.background{ background-color: rgb(123,  
167, 111) }
```

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