

# Converting Colors

XYZ(23.7536, 32.7702, 20.7309)

Have a look what the booklet for  
XYZ(23.7536, 32.7702, 20.7309)  
contains.

<b>XYZ(23.6654, 32.6423, 20.6761)</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(23.6654, 32.6423,  
20.6761)**

# Conversions

## Conversions Part 1

Format	Color
Hex	70A871
RGB	112, 168, 113
RGB Percent	44%, 66%, 44%
CMY	0.5608, 0.3412, 0.5569
CMYK	0.33, 0.00, 0.33, 0.34
HSL	121°, 24%, 55%
HSV	121°, 33%, 66%
XYZ	23.6654, 32.6423, 20.6761
YIQ	144.9860, -15.7210, -28.9770

# Conversions

## Conversions Part 2

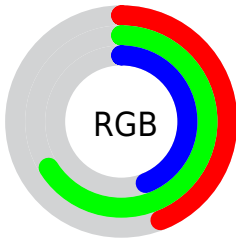
<b>Format</b>	<b>Color</b>
<b>RYB</b>	112, 167, 168
Decimal	7383153
CIELab	63.87, -29.71, 22.75
CIELCh	64, 37.424, 142.560
Yxy	32.6423, 0.3074, 0.4240
Android (android.graphics.Color)	4285573233 (0xFF70A871)
YUV	144.9860, -15.7691, -28.9287
Hunter-Lab	57.1334, -26.0465, 18.5369

# Details

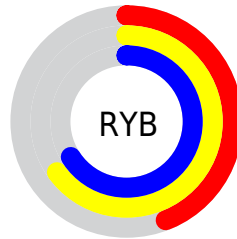
The XYZ color **23.6654, 32.6423, 20.6761** is a dark color, and the websafe version is hex **669966**. A complement of this color would be **28.9188, 22.7039, 39.4187**, and the grayscale version is **26.9753, 28.3801, 30.9060**.

A 20% lighter version of the original color is **48.9642, 64.0273, 45.3751**, and **9.0953, 13.8530, 7.0450** is the 20% darker color. If you saturate the color by 10%, you get **20.8780, 31.3040, 16.1297**, and if you desaturate by 10%, it is **27.0223, 34.2565, 26.1322**.

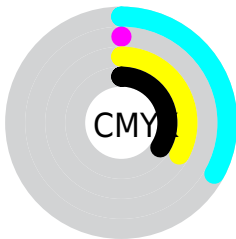
# Distribution



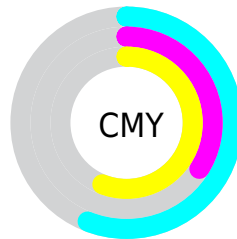
- Red (44%)
- Green (66%)
- Blue (44%)



- Red (44%)
- Yellow (65%)
- Blue (66%)



- Cyan (33%)
- Magenta (0%)
- Yellow (33%)
- Black (34%)



- Cyan (56%)
- Magenta (34%)
- Yellow (56%)

# Brightness & Saturation Gradients

These gradients show how the XYZ color 23.6654, 32.6423, 20.6761 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 23.6654, 32.6423, 20.6761 by changing the saturation by 10% instead.



■ 23.6654, 32.6423,  
20.6761

■ 23.6654, 32.6423,  
20.6761

263.5964,  
314.0348, 268.2764

■ 15.2090, 21.8526,  
12.6985

■ 48.9423, 63.8167,  
45.4216

■ 9.0535, 13.7486,  
7.0930

■ 66.4935, 84.9701,  
63.0266

■ 4.8335, 7.9460,  
3.4410

■ 87.8070, 110.3469,  
84.6779

■ 2.1836, 4.0604,  
1.3240

■ 113.2481,  
140.3314, 110.7939

■ 0.7341, 1.7074,  
0.0813

143.1823,  
175.3080, 141.7932

■ 0.0000, 0.4285,  
0.0000

177.9748,

■ 0.0000, 0.0000,

215.6612, 178.0944

0.0000

217.9911,  
261.7754, 220.1159

■ 23.6654, 32.6423,  
20.6761

■ 23.6654, 32.6423,  
20.6761

■ 20.8780, 31.3040,  
16.1297

■ 27.0223, 34.2565,  
26.1322

■ 18.6261, 30.2224,  
12.4415

■ 30.9751, 36.1565,  
32.5413

■ 16.8762, 29.3823,  
9.5583


■ 35.5517, 38.3567,  
39.9467


■ 15.5898, 28.7652,  
7.4200


■ 40.7774, 40.8692,  
48.3884


■ 14.7230, 28.3498,  
5.9582


■ 46.6762, 43.7056,  
57.9040


 14.2232, 28.1108,  
5.0918

 53.2708, 46.8769,  
68.5295

 14.0197, 28.0132,  
4.7544

 60.5828, 50.3934,  
80.2991

 68.6330, 54.2653,  
93.2454

 73.2933, 56.4866,  
101.6478

# Harmonies

## Analogous

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



27.3034, 32.6423, 14.9363



23.6654, 32.6423, 20.6761



22.0353, 32.6423, 31.9203

# Triad

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



23.6654, 32.6423, 20.6761



29.7338, 32.6423, 72.7133



41.3386, 32.6423, 25.5436

# Complementary

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



23.6654, 32.6423, 20.6761



28.9188, 22.7039, 39.4187

# 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.



42.1786, 32.6423, 39.4276



23.6654, 32.6423, 20.6761



35.0715, 32.6423, 69.5791

# Square

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



23.6654, 32.6423, 20.6761



25.2721, 32.6423, 63.8711



39.7724, 32.6423, 56.2285



37.5919, 32.6423, 17.1418



# Rectangle

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



23.6654, 32.6423, 20.6761



22.1605, 32.6423, 42.2232



39.7724, 32.6423, 56.2285



41.9862, 32.6423, 29.6055

# Sweetspot

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



23.6662, 32.6437, 20.6768



58.6984, 66.8063, 63.0834



32.8792, 37.3996, 20.8155



12.5590, 14.4480, 13.3695



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.



23.6662, 32.6437, 20.6768



39.1039, 57.3890, 31.2600



25.4884, 33.3726, 30.2724



7.4420, 8.4098, 8.0476



10.5887, 21.1542, 3.6010



0.2593, 0.5153, 0.0963



# Inverse Universe

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



28.9188, 22.7039, 39.4187



50.1181, 36.5434, 70.5583



26.6087, 21.7799, 27.2540



7.8360, 7.6643, 9.4538



17.3253, 8.3389, 27.5885



0.4233, 0.2036, 0.6805



# Previews

## White Background



This preview shows how the XYZ color 23.6654, 32.6423, 20.6761 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 23.6654, 32.6423, 20.6761 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

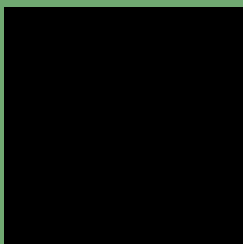
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

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

**XYZ 23.6654, 32.6423, 20.6761**

## **Background**



This preview shows how black text looks on a background with the XYZ color 23.6654, 32.6423, 20.6761.



This preview shows how white text looks on a background with the XYZ color 23.6654, 32.6423,



# 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

23.6654, 32.6423, 20.6761

### Protanopia

29.9353, 32.2797, 18.5628

### Deuteranopia

32.8568, 32.2879, 21.3301



## Tritanopia

28.2820, 32.3697, 44.2925

# Trichromacy



## Original Color

23.6654, 32.6423, 20.6761

## Protanomaly

27.0125, 32.0114, 19.2231

## Deuteranomaly

28.5840, 31.7716, 21.1490

## Tritanomaly

26.2909, 32.3507, 34.1368

# Monochromacy



## Original Color

23.6654, 32.6423, 20.6761

## Achromatopsia

26.9133, 28.3149, 30.8349

## Achromatomaly

25.2977, 29.4625, 26.5438

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 23.6654, 32.6423, 20.6761 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(112, 168, 113)` looks like.

```
.text, #text, p{  
    color:rgb(112, 168, 113)  
}
```

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(112, 168, 113) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(112, 168, 113) }
```

## Border

The CSS property to change the border of an element to XYZ 23.6654, 32.6423, 20.6761 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(112, 168, 113) }
```



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

```
.border{ border-color:rgb(112, 168, 113) }
```

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

Here you see how a box with a 4 pixel `rgb(112, 168, 113)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(112, 168, 113); -webkit-box-  
shadow:4px 4px 4px 4px rgb(112, 168, 113);  
box-shadow:4px 4px 4px 4px rgb(112, 168,  
113) }
```

# Background

The CSS property to change the background color of an element to XYZ 23.6654, 32.6423, 20.6761 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(112, 168, 113) }
```

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

```
.background{ background-color: rgb(112,  
168, 113) }
```

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