

# Converting Colors

XYZ(16.6321, 20.2971, 33.6075)

Have a look what the booklet for  
XYZ(16.6321, 20.2971, 33.6075)  
contains.

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# Color

**XYZ(16.6745, 20.3734,  
33.6255)**

# Conversions

## Conversions Part 1

<b>Format</b>	<b>Color</b>
Hex	45859A
RGB	69, 133, 154
RGB Percent	27%, 52%, 60%
CMY	0.7294, 0.4784, 0.3961
CMYK	0.55, 0.14, 0.00, 0.40
HSL	195°, 38%, 44%
HSV	195°, 55%, 60%
XYZ	16.6745, 20.3734, 33.6255
YIQ	116.2580, -44.8850, -7.0370

# Conversions

## Conversions Part 2

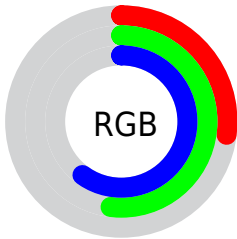
<b>Format</b>	<b>Color</b>
<b>R<sub>YB</sub></b>	69, 106, 154
Decimal	4556186
CIE <sub>Lab</sub>	52.26, -14.31, -17.50
CIE <sub>LCh</sub>	52, 22.606, 230.736
Y <sub>xy</sub>	20.3734, 0.2359, 0.2883
Android (android.graphics.Color)	4282746266 (0xFF45859A)
YUV	116.2580, 18.6068, -41.4453
Hunter-Lab	45.1369, -13.0480, -12.5733

# Details

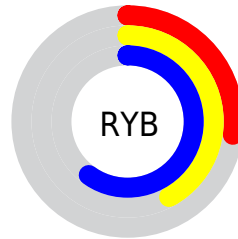
The XYZ color **16.6745, 20.3734, 33.6255** is a dark color, and the websafe version is hex **669999**. A complement of this color would be **18.0572, 14.6125, 7.4996**, and the grayscale version is **16.6347, 17.5010, 19.0586**.

A 20% lighter version of the original color is **37.2563, 43.9570, 66.1954**, and **5.5414, 7.1658, 13.9230** is the 20% darker color. If you saturate the color by 10%, you get **15.2093, 18.8591, 33.4108**, and if you desaturate by 10%, it is **18.4434, 22.0731, 33.8607**.

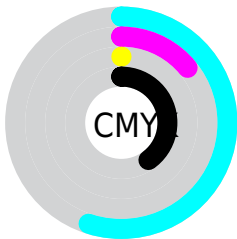
# Distribution



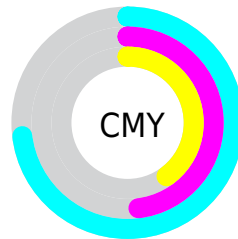
- Red (27%)
- Green (52%)
- Blue (60%)



- Red (27%)
- Yellow (42%)
- Blue (60%)



- Cyan (55%)
- Magenta (14%)
- Yellow (0%)
- Black (40%)



- Cyan (73%)
- Magenta (48%)
- Yellow (40%)

# Brightness & Saturation Gradients

These gradients show how the XYZ color 16.6745, 20.3734, 33.6255 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 16.6745, 20.3734, 33.6255 by changing the saturation by 10% instead.



■ 16.6745, 20.3734,  
33.6255

■ 16.6745, 20.3734,  
33.6255

226.4826,  
253.9294, 333.1770

■ 10.0966, 12.6668,  
22.3310

■ 37.3133, 44.0423,  
66.4781

■ 5.5258, 7.1995,  
13.8997

■ 52.1049, 60.7734,  
88.8733

■ 2.5968, 3.5872,  
7.9130

■ 70.3652, 81.2814,  
115.8058

■ 0.9443, 1.4454,  
3.9523

■ 92.4593, 105.9508,  
147.6941

■ 0.0000, 0.2498,  
1.5992

■ 118.7528,  
135.1659, 184.9569

■ 0.0000, 0.0000,  
0.2903

149.6109,

■ 0.0000, 0.0000,

169.3111, 228.0126

0.0000

185.3990,  
208.7708, 277.2798

■ 16.6745, 20.3734,  
33.6255

■ 16.6745, 20.3734,  
33.6255

■ 15.2093, 18.8591,  
33.4108

■ 18.4434, 22.0731,  
33.8607

■ 14.0231, 17.5161,  
33.2141

■ 20.5343, 23.9667,  
34.1160

■ 13.0908, 16.3312,  
33.0345

■ 22.9663, 26.0646,  
34.3928

■ 12.3785, 15.2869,  
32.8705

■ 25.7562, 28.3760,  
34.6919

■ 12.0730, 14.8136,  
32.7952

■ 28.9199, 30.9092,  
35.0141

■ 32.4722, 33.6721,  
35.3602

■ 36.4272, 36.6723,  
35.7308

■ 40.7981, 39.9168,  
36.1267

■ 45.5975, 43.4125,  
36.5485

# Harmonies

## Analogous

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



15.4827, 20.3734, 27.0242



16.6745, 20.3734, 33.6255



18.6546, 20.3734, 37.3428

# Triad

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



16.6745, 20.3734, 33.6255



24.1122, 20.3734, 24.3053



17.8265, 20.3734, 12.2470

# Complementary

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



16.6745, 20.3734, 33.6255



18.0572, 14.6125, 7.4996

# 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.



20.0918, 20.3734, 11.8073



16.6745, 20.3734, 33.6255



23.8459, 20.3734, 17.9579

# Square

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



16.6745, 20.3734, 33.6255



23.0299, 20.3734, 31.2970



22.3289, 20.3734, 13.6848



16.1099, 20.3734, 15.0364



# Rectangle

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



16.6745, 20.3734, 33.6255



20.2078, 20.3734, 37.2622



22.3289, 20.3734, 13.6848



18.5446, 20.3734, 11.8448

# Sweetspot

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



16.6752, 20.3742, 33.6260



45.6427, 50.6112, 62.8996



15.8065, 25.0954, 13.4260



10.1143, 11.2773, 14.2140



74.8435, 78.7412, 85.7492



12.6291, 13.2868, 14.4694



# Same Dimension

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



16.6752, 20.3742, 33.6260



27.1283, 33.7135, 60.6138



12.0859, 11.1956, 32.0962



6.2553, 6.7679, 7.9056



9.8651, 12.1269, 26.7285



0.1752, 0.2368, 0.4088



# Inverse Universe

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



19.6887, 12.8203, 23.6280



33.4298, 19.5238, 39.3475



22.5622, 23.6225, 9.0012



6.3960, 6.2975, 7.4653



13.4382, 6.6295, 14.0986



0.2149, 0.1047, 0.2846



# Previews

## White Background



This preview shows how the XYZ color 16.6745, 20.3734, 33.6255 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

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 16.6745, 20.3734, 33.6255 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 × Fail

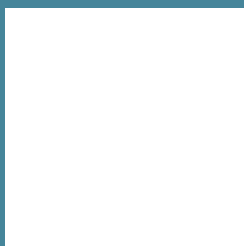
If you want to check with other color combinations, try the [Color Contrast Checker](#).

**XYZ 16.6745, 20.3734, 33.6255**

## **Background**



This preview shows how black text looks on a background with the XYZ color 16.6745, 20.3734, 33.6255.



This preview shows how white text looks on a background with the XYZ color 16.6745, 20.3734,



# 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

16.6745, 20.3734, 33.6255

### Protanopia

19.9572, 20.1944, 30.4498

### Deuteranopia

20.5680, 20.2413, 34.2754



## Tritanopia

15.8827, 20.2528, 29.8601

# Trichromacy



## Original Color

16.6745, 20.3734, 33.6255

## Protanomaly

18.4612, 20.1475, 31.7700

## Deuteranomaly

18.7441, 20.0550, 33.8934

## Tritanomaly

16.1851, 20.3816, 31.0980

# Monochromacy



## Original Color

16.6745, 20.3734, 33.6255

## Achromatopsia

16.6002, 17.4647, 19.0191

## Achromatomaly

16.1344, 18.1834, 23.7785

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 16.6745, 20.3734, 33.6255 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(69, 133, 154)` looks like.

```
.text, #text, p{  
    color:rgb(69, 133, 154)  
}
```

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(69, 133, 154) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(69, 133, 154) }
```

## Border

The CSS property to change the border of an element to XYZ 16.6745, 20.3734, 33.6255 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(69, 133, 154) }
```



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

```
.border{ border-color:rgb(69, 133, 154) }
```

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

Here you see how a box with a 4 pixel rgb(69, 133, 154) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(69, 133, 154); -webkit-box-  
shadow:4px 4px 4px 4px rgb(69, 133, 154);  
box-shadow:4px 4px 4px 4px rgb(69, 133,  
154) }
```

# Background

The CSS property to change the background color of an element to XYZ 16.6745, 20.3734, 33.6255 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(69, 133, 154) }
```

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

```
.background{ background-color: rgb(69, 133,  
154) }
```

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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