

# Converting Colors

XYZ(13.0376, 13.8634, 15.0926)

Have a look what the booklet for  
XYZ(13.0376, 13.8634, 15.0926)  
contains.

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# Color

**XYZ(13.0298, 13.9274,  
15.0982)**

# Conversions

## Conversions Part 1

<b>Format</b>	<b>Color</b>
Hex	666968
RGB	102, 105, 104
RGB Percent	40%, 41%, 41%
CMY	0.6000, 0.5882, 0.5922
CMYK	0.03, 0.00, 0.01, 0.59
HSL	160°, 1%, 41%
HSV	160°, 3%, 41%
XYZ	13.0298, 13.9274, 15.0982
YIQ	103.9890, -1.4670, -0.9470

# Conversions

## Conversions Part 2

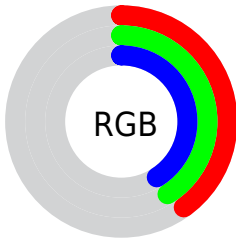
<b>Format</b>	<b>Color</b>
<b>R<sub>YB</sub></b>	102, 104, 105
Decimal	6711656
CIE Lab	44.13, -1.36, 0.15
CIE LCh	44, 1.372, 173.660
Yxy	13.9274, 0.3098, 0.3312
Android (android.graphics.Color)	4284901736 (0xFF666968)
YUV	103.9890, 0.0054, -1.7444
Hunter-Lab	37.3194, -2.9871, 2.1368

# Details

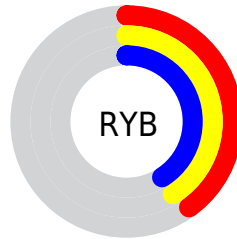
The XYZ color **13.0298, 13.9274, 15.0982** is a dark color, and the websafe version is hex **666666**. A complement of this color would be **13.0258, 13.4857, 14.7492**, and the grayscale version is **13.1558, 13.8409, 15.0727**.

A 20% lighter version of the original color is **30.9417, 32.9158, 35.7329**, and **3.8271, 4.1337, 4.4671** is the 20% darker color. If you saturate the color by 10%, you get **11.7401, 13.2831, 14.1280**, and if you desaturate by 10%, it is **14.4784, 14.6536, 16.1151**.

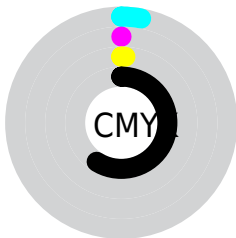
# Distribution



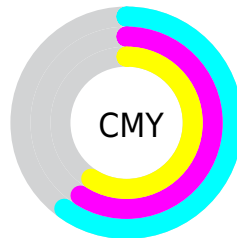
- Red (40%)
- Green (41%)
- Blue (41%)



- Red (40%)
- Yellow (41%)
- Blue (41%)



- Cyan (3%)
- Magenta (0%)
- Yellow (1%)
- Black (59%)



- Cyan (60%)
- Magenta (59%)
- Yellow (59%)

# Brightness & Saturation Gradients

These gradients show how the XYZ color 13.0298, 13.9274, 15.0982 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 13.0298, 13.9274, 15.0982 by changing the saturation by 10% instead.



■ 13.0298, 13.9274,  
15.0982

■ 13.0298, 13.9274,  
15.0982

204.7423,  
216.7787, 235.6210

■ 7.5262, 8.0702,  
8.7409

■ 30.9582, 32.9602,  
35.7701

■ 3.8425, 4.1399,  
4.4781

■ 44.1137, 46.9045,  
50.9218

■ 1.6134, 1.7521,  
1.8911

■ 60.5505, 64.3133,  
69.8421

■ 0.4011, 0.4571,  
0.4871

■ 80.6340, 85.5710,  
92.9495

■ 0.0000, 0.0000,  
0.0000

104.7296,  
111.0620, 120.6626

133.2026,

141.1707, 153.3998

166.4184,  
176.2815, 191.5798

■ 13.0298, 13.9274,  
15.0982

■ 13.0298, 13.9274,  
15.0982

■ 11.7401, 13.2831,  
14.1280

■ 14.4784, 14.6536,  
16.1151

■ 10.6025, 12.7159,  
13.2027

■ 16.0903, 15.4627,  
17.1784

■ 9.6113, 12.2234,  
12.3220

■ 17.8708, 16.3578,  
18.2892

■ 8.7600, 11.8022,  
11.4851

■ 19.8250, 17.3416,  
19.4481

■ 8.0417, 11.4487,  
10.6912

■ 21.9576, 18.4165,  
20.6557

■ 7.4488, 11.1591,  
9.9393

■ 24.2730, 19.5847,  
21.9128

■ 6.9729, 10.9290,  
9.2286

■ 26.7757, 20.8485,  
23.2198

■ 6.6045, 10.7535,  
8.5582

■ 29.4698, 22.2102,  
24.5775

■ 6.3304, 10.6259,  
7.9269

■ 32.3595, 23.6717,  
25.9864

# Harmonies

## Analogous

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



13.0690, 13.9274, 14.8107



13.0298, 13.9274, 15.0982



13.0460, 13.9274, 15.4074

# Triad

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



13.0298, 13.9274, 15.0982



13.3221, 13.9274, 15.7226



13.3625, 13.9274, 14.6849

# Complementary

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



13.0298, 13.9274, 15.0982



13.0258, 13.4857, 14.7492

# 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.



13.4310, 13.9274, 14.9243



13.0298, 13.9274, 15.0982



13.4076, 13.9274, 15.5240

# Square

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



13.0298, 13.9274, 15.0982



13.2144, 13.9274, 15.7707



13.4475, 13.9274, 15.2311



13.2608, 13.9274, 14.5742



# Rectangle

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



13.0298, 13.9274, 15.0982



13.0861, 13.9274, 15.5839



13.4475, 13.9274, 15.2311



13.3902, 13.9274, 14.7528

# Sweetspot

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



13.0302, 13.9280, 15.0985



23.7840, 25.1654, 27.3613



13.0496, 13.9496, 14.5755



5.5765, 5.8975, 6.4130



52.6788, 55.4222, 60.3547



5.6320, 5.9254, 6.4527



# Same Dimension

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



13.0302, 13.9280, 15.0985



23.2752, 24.9107, 26.9939



13.0357, 13.8570, 15.3529



3.3230, 3.5666, 3.8616



7.7768, 13.3448, 9.4014



39.2109, 67.8315, 45.7192



# Inverse Universe

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



13.0258, 13.4857, 14.7492



23.2668, 24.0568, 26.3196



13.0202, 13.5545, 14.5008



3.3216, 3.4244, 3.7493



7.7452, 3.9502, 2.2870



39.0984, 19.9813, 9.7208



# Previews

## White Background



This preview shows how the XYZ color 13.0298, 13.9274, 15.0982 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

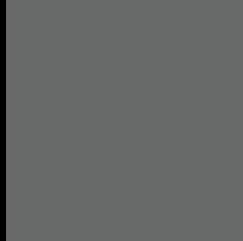
Any Text WCAG AA ✓ Pass

Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the XYZ color 13.0298, 13.9274, 15.0982 looks on a black 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

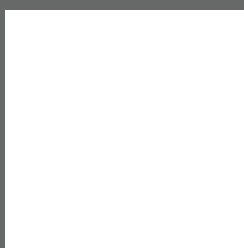
If you want to check with other color combinations, try the [Color Contrast Checker](#).

**XYZ 13.0298, 13.9274, 15.0982**

## **Background**



This preview shows how black text looks on a background with the XYZ color 13.0298, 13.9274, 15.0982.



This preview shows how white text looks on a background with the XYZ color 13.0298, 13.9274,



# 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

13.0298, 13.9274, 15.0982

### Protanopia

13.3424, 13.9441, 14.8202

### Deuteranopia

14.1429, 13.9047, 15.3031



## Tritanopia

13.4685, 13.9540, 17.3128

# Trichromacy



**Original Color**

13.0298, 13.9274, 15.0982

**Protanomaly**

13.2242, 13.8832, 14.8147

**Deuteranomaly**

13.7316, 13.8377, 15.3118

**Tritanomaly**

13.3042, 13.8883, 16.4475

# Monochromacy



**Original Color**

13.0298, 13.9274, 15.0982

**Achromatopsia**

13.1579, 13.8432, 15.0752

**Achromatomaly**

13.0425, 13.7837, 15.0698

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 13.0298, 13.9274, 15.0982 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(102, 105, 104)` looks like.

```
.text, #text, p{  
    color:rgb(102, 105, 104)  
}
```

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(102, 105, 104) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(102, 105, 104) }
```

## Border

The CSS property to change the border of an element to XYZ 13.0298, 13.9274, 15.0982 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(102, 105, 104) }
```



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

```
.border{ border-color:rgb(102, 105, 104) }
```

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

Here you see how a box with a 4 pixel `rgb(102, 105, 104)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(102, 105, 104); -webkit-box-  
shadow:4px 4px 4px 4px rgb(102, 105, 104);  
box-shadow:4px 4px 4px 4px rgb(102, 105,  
104) }
```

# Background

The CSS property to change the background color of an element to XYZ 13.0298, 13.9274, 15.0982 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(102, 105, 104) }
```

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

```
.background{ background-color: rgb(102,  
105, 104) }
```

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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