

# Converting Colors

XYZ(13.8450, 12.9713, 18.0061)

Have a look what the booklet for  
XYZ(13.8450, 12.9713, 18.0061)  
contains.

<b>XYZ(13.8329, 12.9831, 17.9966)</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(13.8329, 12.9831,  
17.9966)**

# Conversions

## Conversions Part 1

<b>Format</b>	<b>Color</b>
Hex	6F6073
RGB	111, 96, 115
RGB Percent	44%, 38%, 45%
CMY	0.5647, 0.6235, 0.5490
CMYK	0.03, 0.17, 0.00, 0.55
HSL	287°, 9%, 41%
HSV	287°, 17%, 45%
XYZ	13.8329, 12.9831, 17.9966
YIQ	102.6510, 2.8410, 9.0890

# Conversions

## Conversions Part 2

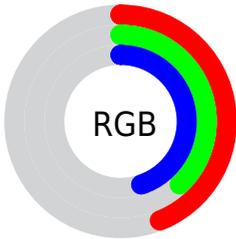
<b>Format</b>	<b>Color</b>
<b>R<sub>YB</sub></b>	111, 96, 115
Decimal	7299187
CIE Lab	42.74, 9.82, -8.49
CIE LCh	43, 12.982, 319.175
Yxy	12.9831, 0.3087, 0.2897
Android (android.graphics.Color)	4285489267 (0xFF6F6073)
YUV	102.6510, 6.0881, 7.3221
Hunter-Lab	36.0321, 5.4710, -4.3906

# Details

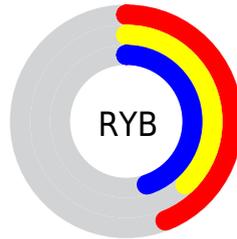
The XYZ color **13.8329, 12.9831, 17.9966** is a dark color, and the websafe version is hex **666666**. A complement of this color would be **13.4982, 15.8158, 13.4084**, and the grayscale version is **12.7843, 13.4501, 14.6472**.

A 20% lighter version of the original color is **32.5130, 31.4440, 40.9149**, and **4.2036, 3.7432, 5.8111** is the 20% darker color. If you saturate the color by 10%, you get **12.5590, 10.8814, 17.6583**, and if you desaturate by 10%, it is **15.2693, 15.3972, 18.3871**.

# Distribution



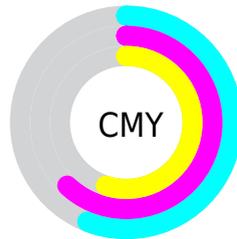
- Red (44%)
- Green (38%)
- Blue (45%)



- Red (44%)
- Yellow (38%)
- Blue (45%)



- Cyan (3%)
- Magenta (17%)
- Yellow (0%)
- Black (55%)



- Cyan (56%)
- Magenta (62%)
- Yellow (55%)

# Brightness & Saturation Gradients

These gradients show how the XYZ color 13.8329, 12.9831, 17.9966 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 13.8329, 12.9831, 17.9966 by changing the saturation by 10% instead.

■ 13.8329, 12.9831,  
17.9966

■ 13.8329, 12.9831,  
17.9966

209.7203,  
210.8093, 253.0874

■ 8.0855, 7.4169,  
10.7781

■ 32.3810, 31.2734,  
40.8454

■ 4.2019, 3.7242,  
5.8056

■ 45.9123, 44.7663,  
57.3128

■ 1.8170, 1.5205,  
2.6603

■ 62.7691, 61.6703,  
77.7003

■ 0.5279, 0.3031,  
0.9234

■ 83.3165, 82.3697,  
102.4263

■ 0.0000, 0.0000,  
0.0000

107.9199,  
107.2489, 131.9095

136.9448,

136.6923, 166.5684

170.7565,  
171.0843, 206.8215

■ 13.8329, 12.9831,  
17.9966

■ 13.8329, 12.9831,  
17.9966

■ 12.5590, 10.8814,  
17.6583

■ 15.2693, 15.3972,  
18.3871

■ 11.4398, 9.0771,  
17.3690

■ 16.8734, 18.1345,  
18.8309

■ 10.4685, 7.5565,  
17.1267

■ 18.6516, 21.2075,  
19.3303

■ 9.6373, 6.3041,  
16.9288

■ 20.6094, 24.6272,  
19.8872

■ 8.9377, 5.3030,  
16.7724

■ 22.7523, 28.4044,  
20.5033

8.3601, 4.5342,  
16.6544

25.0854, 32.5494,  
21.1804

7.8937, 3.9761,  
16.5713

27.6137, 37.0718,  
21.9201

7.5145, 3.5809,  
16.5150

30.3419, 41.9813,  
22.7239

7.3877, 3.4510,  
16.4966

33.2746, 47.2868,  
23.5934

# Harmonies

## Analogous

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



12.9741, 12.9831, 19.9179



13.8329, 12.9831, 17.9966



14.3000, 12.9831, 15.1822

# Triad

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



13.8329, 12.9831, 17.9966



12.7000, 12.9831, 9.4408



10.6326, 12.9831, 15.9982

# Complementary

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



13.8329, 12.9831, 17.9966



13.4982, 15.8158, 13.4084

# 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.



10.5679, 12.9831, 13.1397



13.8329, 12.9831, 17.9966



11.7270, 12.9831, 9.5982

# Square

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



13.8329, 12.9831, 17.9966



13.6231, 12.9831, 10.4088



10.9587, 12.9831, 10.8719



11.1402, 12.9831, 18.6621

# Rectangle

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



13.8329, 12.9831, 17.9966



14.3104, 12.9831, 13.2872



10.9587, 12.9831, 10.8719



10.5594, 12.9831, 15.0210

# Sweetspot

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



13.8333, 12.9837, 17.9969



27.7229, 28.2167, 33.0297



12.4874, 12.8620, 18.0443



6.5771, 6.6693, 7.8696



57.3938, 60.3827, 65.7568



6.9614, 7.3239, 7.9757



# Same Dimension

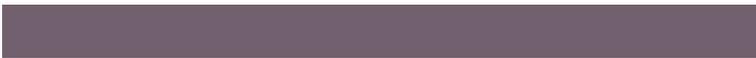
The Same Dimension uses a secret algorithm to generate beautiful new colors.



13.8333, 12.9837, 17.9969



23.8227, 21.6758, 31.9728



14.0472, 13.1287, 16.4368



3.7548, 3.7209, 4.6105



8.4276, 3.9359, 18.8581



40.3382, 18.8036, 91.8637



# Inverse Universe

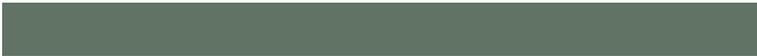
The Inverse Universe completely reimagines the original color for something new.



13.5539, 12.9314, 13.8391



23.2315, 21.5709, 22.9142



13.3229, 15.6958, 14.7386



3.7126, 3.7123, 4.0134



8.2667, 4.2404, 1.3469



40.0225, 20.5591, 5.1818



# Previews

## White Background



This preview shows how the XYZ color 13.8329, 12.9831, 17.9966 looks on a white background.

## Color Contrast Check

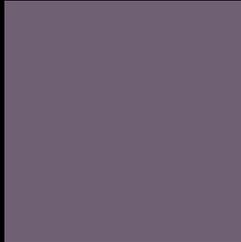
Large Text (above 18pt) WCAG AA ✓ Pass

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 13.8329, 12.9831, 17.9966 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 13.8329, 12.9831, 17.9966**

## **Background**



This preview shows how black text looks on a background with the XYZ color 13.8329, 12.9831, 17.9966.



This preview shows how white text looks on a background with the XYZ color 13.8329, 12.9831,



# 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

13.8329, 12.9831, 17.9966

### Protanopia

12.8642, 13.0190, 18.9744

### Deuteranopia

13.1711, 12.9162, 18.0185



## Tritanopia

13.3479, 13.0703, 15.1839

# Trichromacy



## Original Color

13.8329, 12.9831, 17.9966

## Protanomaly

13.2662, 13.0916, 18.6573

## Deuteranomaly

13.4326, 12.9130, 18.0041

## Tritanomaly

13.4654, 12.9685, 16.2615

# Monochromacy



## Original Color

13.8329, 12.9831, 17.9966

## Achromatopsia

12.8919, 13.5633, 14.7705

## Achromatomaly

13.1549, 13.2401, 15.7722

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 13.8329, 12.9831, 17.9966 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(111, 96, 115)` looks like.

```
.text, #text, p{  
    color:rgb(111, 96, 115)  
}
```

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(111, 96, 115) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(111, 96, 115) }
```

## Border

The CSS property to change the border of an element to XYZ 13.8329, 12.9831, 17.9966 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(111, 96, 115) }
```

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

```
.border{ border-color:rgb(111, 96, 115) }
```

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

Here you see how a box with a 4 pixel `rgb(111, 96, 115)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(111, 96, 115); -webkit-box-  
shadow:4px 4px 4px 4px rgb(111, 96, 115);  
box-shadow:4px 4px 4px 4px rgb(111, 96,  
115) }
```

# Background

The CSS property to change the background color of an element to XYZ 13.8329, 12.9831, 17.9966 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(111, 96, 115) }
```

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

```
.background{ background-color: rgb(111, 96,  
115) }
```

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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