

Converting Colors

XYZ(12.4135, 13.3503, 15.8601)

Have a look what the booklet for
XYZ(12.4135, 13.3503, 15.8601)
contains.

XYZ(12.3280, 13.2488, 15.8174)	3
<i>Conversions</i>	4
<i>Details</i>	6
<i>Harmonies</i>	12
<i>Previews</i>	24
<i>Color Blindness Simulation</i>	28
<i>CSS Examples</i>	31

Color

**XYZ(12.3280, 13.2488,
15.8174)**

Conversions

Conversions Part 1

Format	Color
Hex	60676B
RGB	96, 103, 107
RGB Percent	38%, 40%, 42%
CMY	0.6235, 0.5961, 0.5804
CMYK	0.10, 0.04, 0.00, 0.58
HSL	202°, 5%, 40%
HSV	202°, 10%, 42%
XYZ	12.3280, 13.2488, 15.8174
YIQ	101.3630, -5.4560, -0.2400

Conversions

Conversions Part 2

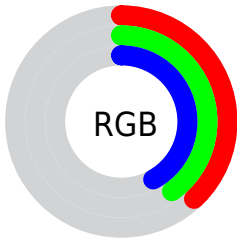
Format	Color
R_{YB}	96, 100, 107
Decimal	6317931
CIE Lab	43.14, -1.80, -3.18
CIE LCh	43, 3.652, 240.507
Yxy	13.2488, 0.2978, 0.3201
Android (android.graphics.Color)	4284508011 (0xFF60676B)
YUV	101.3630, 2.7790, -4.7034
Hunter-Lab	36.3989, -3.2416, -0.2857

Details

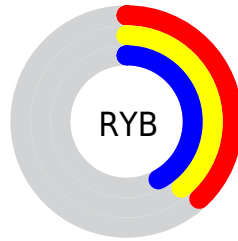
The XYZ color **12.3280, 13.2488, 15.8174** is a dark color, and the websafe version is hex **666666**. A complement of this color would be **12.7321, 13.0848, 12.9213**, and the grayscale version is **12.4579, 13.1067, 14.2732**.

A 20% lighter version of the original color is **29.7598, 31.7829, 36.9140**, and **3.5452, 3.8327, 4.8279** is the 20% darker color. If you saturate the color by 10%, you get **10.9001, 11.9520, 15.6425**, and if you desaturate by 10%, it is **13.9279, 14.6618, 16.0060**.

Distribution



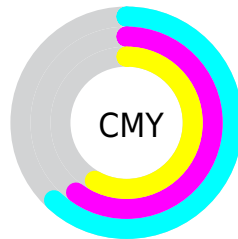
- Red (38%)
- Green (40%)
- Blue (42%)



- Red (38%)
- Yellow (39%)
- Blue (42%)



- Cyan (10%)
- Magenta (4%)
- Yellow (0%)
- Black (58%)



- Cyan (62%)
- Magenta (60%)
- Yellow (58%)

Brightness & Saturation Gradients

These gradients show how the XYZ color 12.3280, 13.2488, 15.8174 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 12.3280, 13.2488, 15.8174 by changing the saturation by 10% instead.

■ 12.3280, 13.2488,
15.8174

■ 12.3280, 13.2488,
15.8174

200.2907,
212.5061, 240.0706

■ 7.0413, 7.6001,
9.2421

■ 29.7028, 31.7500,
37.0433

■ 3.5345, 3.8401,
4.8005

■ 42.5216, 45.3714,
52.5309

■ 1.4423, 1.5845,
2.0740

■ 58.5817, 62.4190,
71.8264

■ 0.2861, 0.3471,
0.6002

■ 78.2486, 83.2774,
95.3483

■ 0.0000, 0.0000,
0.0000

101.8876,
108.3309, 123.5151

129.8640,

137.9639, 156.7454

162.5433,
172.5609, 195.4577

■ 12.3280, 13.2488,
15.8174

■ 12.3280, 13.2488,
15.8174

■ 10.9001, 11.9520,
15.6425

■ 13.9279, 14.6618,
16.0060

■ 9.6367, 10.7659,
15.4802

■ 15.7048, 16.1927,
16.2079

■ 8.5314, 9.6874,
15.3303

■ 17.6647, 17.8454,
16.4236

■ 7.5768, 8.7122,
15.1924

■ 19.8131, 19.6230,
16.6534

■ 6.7651, 7.8359,
15.0660

■ 22.1552, 21.5286,
16.8978

■ 6.0874, 7.0535,
14.9507

■ 24.6961, 23.5651,
17.1570

■ 5.5341, 6.3598,
14.8460

■ 27.4406, 25.7353,
17.4312

■ 5.0939, 5.7483,
14.7511

■ 30.3933, 28.0419,
17.7208

■ 4.7272, 5.2081,
14.6662

■ 33.5588, 30.4876,
18.0260

Harmonies

Analogous

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



12.1320, 13.2488, 15.2270



12.3280, 13.2488, 15.8174



12.5974, 13.2488, 16.0319

Triad

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



12.3280, 13.2488, 15.8174



13.1416, 13.2488, 14.4120



12.3198, 13.2488, 13.1310

Complementary

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



12.3280, 13.2488, 15.8174



12.7321, 13.0848, 12.9213

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.



12.5878, 13.2488, 12.9305



12.3280, 13.2488, 15.8174



13.0647, 13.2488, 13.6530

Square

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



12.3280, 13.2488, 15.8174



13.0696, 13.2488, 15.2024



12.8609, 13.2488, 13.1181



12.1273, 13.2488, 13.6759

Rectangle

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



12.3280, 13.2488, 15.8174



12.7831, 13.2488, 15.9268



12.8609, 13.2488, 13.1181



12.4039, 13.2488, 13.0220

Sweetspot

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



12.3284, 13.2494, 15.8177



24.1045, 25.5230, 28.5637



12.3749, 13.9196, 14.0534



5.7851, 6.1344, 6.9079



54.2243, 57.0482, 62.1254



6.0569, 6.3724, 6.9395

Same Dimension

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



12.3284, 13.2494, 15.8177



21.5240, 23.2295, 28.2570



11.8131, 12.2187, 15.6459



3.0938, 3.3160, 3.9119



5.7214, 6.2772, 17.8323



28.3069, 30.2923, 90.5813

Inverse Universe

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



12.6948, 12.4712, 14.5706



22.3048, 21.5925, 25.5946



13.2623, 14.1452, 13.0980



3.1732, 3.1461, 3.6422



8.6348, 4.3060, 6.9713



43.5708, 21.7703, 33.2722

Previews

White Background



This preview shows how the XYZ color 12.3280, 13.2488, 15.8174 looks on a white background.

Color Contrast Check

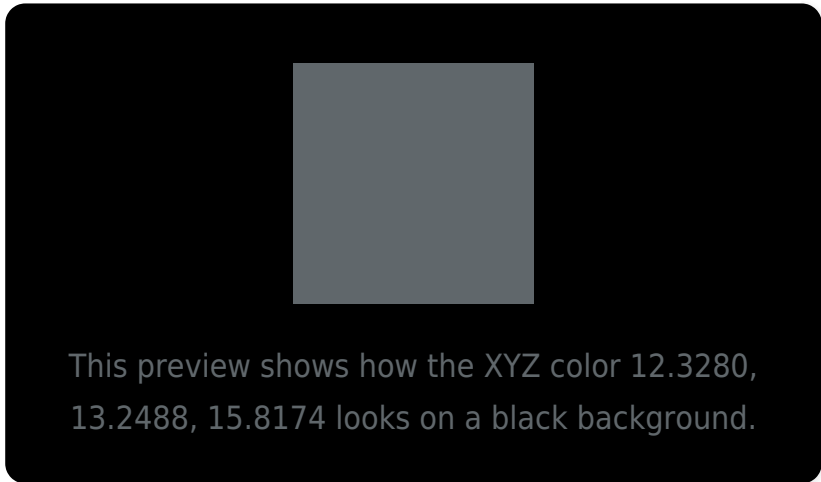
Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA × Fail

Black Background



Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA × Fail

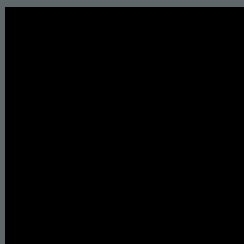
Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail

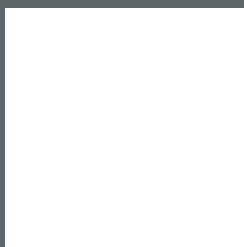
If you want to check with other color combinations, try the [Color Contrast Checker](#).

XYZ 12.3280, 13.2488, 15.8174

Background



This preview shows how black text looks on a background with the XYZ color 12.3280, 13.2488, 15.8174.

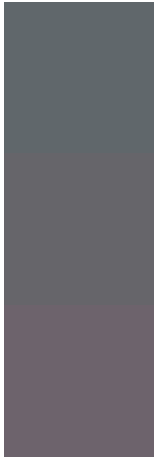


This preview shows how white text looks on a background with the XYZ color 12.3280, 13.2488,

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

12.3280, 13.2488, 15.8174

Protanopia

12.7347, 13.1727, 15.5071

Deuteranopia

13.4753, 13.2576, 16.0361



Tritanopia

12.5504, 13.1918, 16.9237

Trichromacy

**Original Color**

12.3280, 13.2488, 15.8174

Protanomaly

12.6084, 13.2527, 15.5292

Deuteranomaly

12.9729, 13.1401, 16.0399

Tritanomaly

12.4956, 13.1699, 16.6353

Monochromacy

**Original Color**

12.3280, 13.2488, 15.8174

Achromatopsia

12.3695, 13.0136, 14.1719

Achromatomaly

12.3451, 13.1347, 14.7165

CSS Examples

Text

The CSS property to change the color of the text to XYZ 12.3280, 13.2488, 15.8174 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(96, 103, 107) looks like.

```
.text, #text, p{  
    color:rgb(96, 103, 107)  
}
```

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(96, 103, 107) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(96, 103, 107) }
```

Border

The CSS property to change the border of an element to XYZ 12.3280, 13.2488, 15.8174 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(96, 103, 107) }
```


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

```
.border{ border-color:rgb(96, 103, 107) }
```

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

Here you see how a box with a 4 pixel `rgb(96, 103, 107)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(96, 103, 107); -webkit-box-  
shadow:4px 4px 4px 4px rgb(96, 103, 107);  
box-shadow:4px 4px 4px 4px rgb(96, 103,  
107) }
```

Background

The CSS property to change the background color of an element to XYZ 12.3280, 13.2488, 15.8174 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(96, 103, 107) }
```

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

```
.background{ background-color: rgb(96, 103,  
107) }
```

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