

Converting Colors

XYZ(12.0931, 13.0480, 20.1253)

Have a look what the booklet for
XYZ(12.0931, 13.0480, 20.1253)
contains.

XYZ(12.0478, 13.0123, 19.9658)	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(12.0478, 13.0123,
19.9658)**

Conversions

Conversions Part 1

Format	Color
Hex	556779
RGB	85, 103, 121
RGB Percent	33%, 40%, 47%
CMY	0.6667, 0.5961, 0.5255
CMYK	0.30, 0.15, 0.00, 0.53
HSL	210°, 17%, 40%
HSV	210°, 30%, 47%
XYZ	12.0478, 13.0123, 19.9658
YIQ	99.6700, -16.5060, 1.7820

Conversions

Conversions Part 2

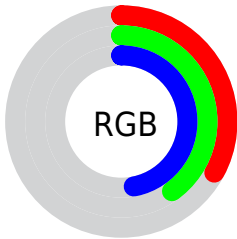
Format	Color
R_{YB}	85, 97, 121
Decimal	5597049
CIE _{Lab}	42.78, -2.20, -12.28
CIE _{LCh}	43, 12.473, 259.821
Yxy	13.0123, 0.2676, 0.2890
Android (android.graphics.Color)	4283787129 (0xFF556779)
YUV	99.6700, 10.5157, -12.8656
Hunter-Lab	36.0726, -3.5102, -7.5656

Details

The XYZ color **12.0478, 13.0123, 19.9658** is a dark color, and the websafe version is hex **666666**. A complement of this color would be **14.3753, 14.4215, 10.6208**, and the grayscale version is **12.0067, 12.6319, 13.7562**.

A 20% lighter version of the original color is **29.0901, 31.2792, 44.0394**, and **3.3832, 3.7083, 6.6683** is the 20% darker color. If you saturate the color by 10%, you get **10.4618, 11.3337, 19.7256**, and if you desaturate by 10%, it is **13.8661, 14.8759, 20.2299**.

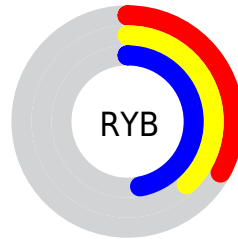
Distribution



Red (33%)

Green (40%)

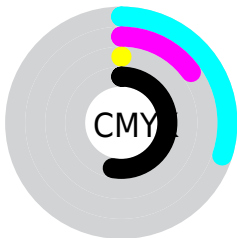
Blue (47%)



Red (33%)

Yellow (38%)

Blue (47%)

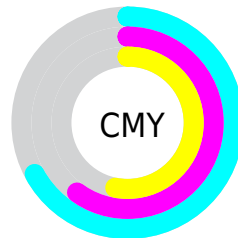


Cyan (30%)

Magenta (15%)

Yellow (0%)

Black (53%)



Cyan (67%)

Magenta (60%)

Yellow (53%)

Brightness & Saturation Gradients

These gradients show how the XYZ color 12.0478, 13.0123, 19.9658 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 12.0478, 13.0123, 19.9658 by changing the saturation by 10% instead.

■ 12.0478, 13.0123,
19.9658

■ 12.0478, 13.0123,
19.9658

198.4849,
210.9965, 264.3280

■ 6.8487, 7.4370,
12.1864

■ 29.1982, 31.3259,
44.2181

■ 3.4131, 3.7369,
6.7466

■ 41.8803, 44.8330,
61.5279

■ 1.3758, 1.5275,
3.2281

■ 57.7873, 61.7528,
82.8517

■ 0.2389, 0.3080,
1.2123

■ 77.2847, 82.4697,
108.6080

■ 0.0000, 0.0000,
0.0000

■ 100.7378,
107.3681, 139.2152

128.5119,

136.8325, 175.0919

160.9725,
171.2471, 216.6567

■ 12.0478, 13.0123,
19.9658

■ 12.0478, 13.0123,
19.9658

■ 10.4618, 11.3337,
19.7256

■ 13.8661, 14.8759,
20.2299

■ 9.0963, 9.8319,
19.5077

■ 15.9252, 16.9292,
20.5177

■ 7.9405, 8.4999,
19.3115

■ 18.2346, 19.1789,
20.8302

■ 6.9818, 7.3301,
19.1363

■ 20.8032, 21.6307,
21.1681

■ 6.2063, 6.3136,
18.9809

■ 23.6390, 24.2899,
21.5319

■ 5.5981, 5.4407,
18.8445

■ 26.7500, 27.1618,
21.9223

■ 5.1053, 4.6831,
18.7242

■ 30.1436, 30.2516,
22.3398

■ 5.0936, 4.6652,
18.7214

■ 33.8272, 33.5639,
22.7850

■ 37.8077, 37.1035,
23.2584

Harmonies

Analogous

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



11.2264, 13.0123, 18.5525



12.0478, 13.0123, 19.9658



12.9975, 13.0123, 19.6811

Triad

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



12.0478, 13.0123, 19.9658



14.1669, 13.0123, 12.4674



11.0241, 13.0123, 11.0541

Complementary

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



12.0478, 13.0123, 19.9658



14.3753, 14.4215, 10.6208

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.



11.7587, 13.0123, 9.7948



12.0478, 13.0123, 19.9658



13.5841, 13.0123, 10.5355

Square

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



12.0478, 13.0123, 19.9658



14.2541, 13.0123, 15.1129



12.6934, 13.0123, 9.6179



10.6557, 13.0123, 13.2637

Rectangle

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



12.0478, 13.0123, 19.9658



13.5748, 13.0123, 18.5777



12.6934, 13.0123, 9.6179



11.2346, 13.0123, 10.5183

Sweetspot

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



12.0482, 13.0128, 19.9661



28.7236, 30.5184, 36.7696



13.0022, 16.5736, 15.1887



6.4605, 6.8724, 8.3927



59.0181, 62.0916, 67.6177



7.4413, 7.8288, 8.5256

Same Dimension

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



12.0482, 13.0128, 19.9661



19.5029, 21.1199, 35.4415



10.4938, 9.9041, 19.4480



3.9478, 4.1938, 5.0446



5.4472, 4.9768, 20.0588



25.1324, 22.0375, 95.3988

Inverse Universe

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



13.5822, 11.5417, 14.3444



22.7971, 18.2245, 23.3099



16.2898, 18.2504, 11.2589



4.0741, 4.0454, 4.5878



9.3328, 4.7093, 5.0435



44.0888, 22.2919, 21.7957

Previews

White Background



This preview shows how the XYZ color 12.0478, 13.0123, 19.9658 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 12.0478, 13.0123, 19.9658 looks on a black background.

Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA × Fail

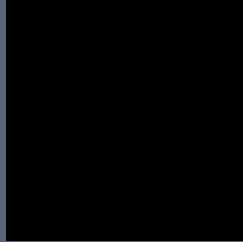
Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail

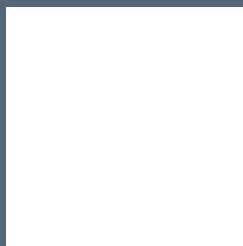
If you want to check with other color combinations, try the [Color Contrast Checker](#).

XYZ 12.0478, 13.0123, 19.9658

Background



This preview shows how black text looks on a background with the XYZ color 12.0478, 13.0123, 19.9658.

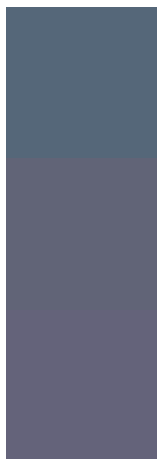


This preview shows how white text looks on a background with the XYZ color 12.0478, 13.0123,

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

12.0478, 13.0123, 19.9658

Protanopia

12.8167, 12.9876, 19.2841

Deuteranopia

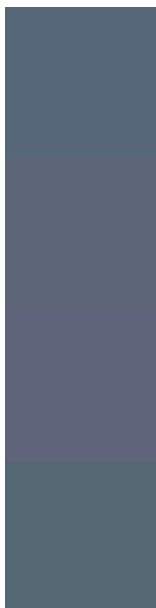
13.2302, 13.0381, 20.2317



Tritanopia

11.4982, 12.9319, 17.5129

Trichromacy



Original Color

12.0478, 13.0123, 19.9658

Protanomaly

12.5580, 12.9906, 19.6149

Deuteranomaly

12.7893, 12.9524, 20.2383

Tritanomaly

11.7589, 13.0464, 18.4214

Monochromacy



Original Color

12.0478, 13.0123, 19.9658

Achromatopsia

12.1130, 12.7438, 13.8780

Achromatomaly

12.0798, 12.8230, 16.0258

CSS Examples

Text

The CSS property to change the color of the text to XYZ 12.0478, 13.0123, 19.9658 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(85, 103, 121) looks like.

```
.text, #text, p{  
    color:rgb(85, 103, 121)  
}
```

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(85, 103, 121) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(85, 103, 121) }
```

Border

The CSS property to change the border of an element to XYZ 12.0478, 13.0123, 19.9658 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(85, 103, 121) }
```


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

```
.border{ border-color:rgb(85, 103, 121) }
```

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

Here you see how a box with a 4 pixel `rgb(85, 103, 121)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(85, 103, 121); -webkit-box-  
shadow:4px 4px 4px 4px rgb(85, 103, 121);  
box-shadow:4px 4px 4px 4px rgb(85, 103,  
121) }
```

Background

The CSS property to change the background color of an element to XYZ 12.0478, 13.0123, 19.9658 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(85, 103, 121) }
```

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

```
.background{ background-color: rgb(85, 103,  
121) }
```

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