

Converting Colors

XYZ(13.2211, 16.1625, 19.8519)

Have a look what the booklet for
XYZ(13.2211, 16.1625, 19.8519)
contains.

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Color

**XYZ(13.2349, 16.2310,
19.8881)**

Conversions

Conversions Part 1

Format	Color
Hex	507777
RGB	80, 119, 119
RGB Percent	31%, 47%, 47%
CMY	0.6863, 0.5333, 0.5333
CMYK	0.33, 0.00, 0.00, 0.53
HSL	180°, 20%, 39%
HSV	180°, 33%, 47%
XYZ	13.2349, 16.2310, 19.8881
YIQ	107.3390, -23.2440, -8.2680

Conversions

Conversions Part 2

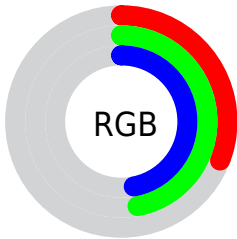
Format	Color
R _Y B	80, 100, 119
Decimal	5273463
CIE Lab	47.28, -13.58, -4.38
CIE LCh	47, 14.273, 197.872
Yxy	16.2310, 0.2682, 0.3289
Android (android.graphics.Color)	4283463543 (0xFF507777)
YUV	107.3390, 5.7489, -23.9763
Hunter-Lab	40.2877, -11.8645, -1.0672

Details

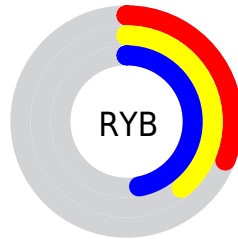
The XYZ color **13.2349, 16.2310, 19.8881** is a dark color, and the websafe version is hex **336666**. A complement of this color would be **11.9250, 10.2390, 8.9380**, and the grayscale version is **14.0588, 14.7910, 16.1073**.

A 20% lighter version of the original color is **31.2737, 36.8914, 44.0005**, and **3.9232, 5.1423, 6.7470** is the 20% darker color. If you saturate the color by 10%, you get **12.3179, 15.7587, 19.8454**, and if you desaturate by 10%, it is **14.3308, 16.7964, 19.9399**.

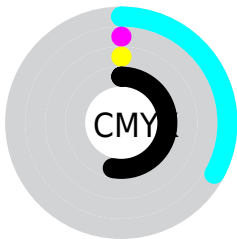
Distribution



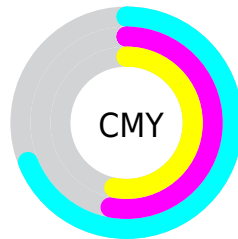
- Red (31%)
- Green (47%)
- Blue (47%)



- Red (31%)
- Yellow (39%)
- Blue (47%)



- Cyan (33%)
- Magenta (0%)
- Yellow (0%)
- Black (53%)



- Cyan (69%)
- Magenta (53%)
- Yellow (53%)

Brightness & Saturation Gradients

These gradients show how the XYZ color 13.2349, 16.2310, 19.8881 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 13.2349, 16.2310, 19.8881 by changing the saturation by 10% instead.

■ 13.2349, 16.2310,
19.8881

■ 13.2349, 16.2310,
19.8881

206.0250,
230.7010, 263.8929

■ 7.6686, 9.6878,
12.1305

■ 31.3229, 36.9988,
44.0860

■ 3.9337, 5.1924,
6.7090

■ 44.5753, 51.9921,
61.3633

■ 1.6647, 2.3606,
3.2051

■ 61.1205, 70.5709,
82.6510

■ 0.4340, 0.8055,
1.2003

■ 81.3237, 93.1196,
108.3675

■ 0.0000, 0.0000,
0.0000

■ 105.5505,
120.0225, 138.9314

134.1660,

151.6641, 174.7612

167.5357,
188.4288, 216.2755

■ 13.2349, 16.2310,
19.8881

■ 13.2349, 16.2310,
19.8881

■ 12.3179, 15.7587,
19.8454

■ 14.3308, 16.7964,
19.9399

■ 11.5691, 15.3726,
19.8103

■ 15.6130, 17.4574,
20.0000

■ 10.9786, 15.0682,
19.7825

■ 17.0900, 18.2188,
20.0692

■ 10.5350, 14.8396,
19.7617

■ 18.7695, 19.0846,
20.1479

■ 10.2256, 14.6801,
19.7471

■ 20.6588, 20.0585,
20.2364

■ 10.0344, 14.5815,
19.7380

■ 22.7646, 21.1441,
20.3351

■ 9.9267, 14.5260,
19.7329

■ 25.0936, 22.3448,
20.4442

■ 27.6521, 23.6637,
20.5641

■ 30.4462, 25.1041,
20.6949

Harmonies

Analogous

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



13.1783, 16.2310, 16.2552



13.2349, 16.2310, 19.8881



13.8588, 16.2310, 23.3324

Triad

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



13.2349, 16.2310, 19.8881



17.2939, 16.2310, 22.7458



15.9415, 16.2310, 11.7217

Complementary

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



13.2349, 16.2310, 19.8881



11.9250, 10.2390, 8.9380

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.



17.1094, 16.2310, 13.0115



13.2349, 16.2310, 19.8881



17.9182, 16.2310, 19.1705

Square

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



13.2349, 16.2310, 19.8881



16.1824, 16.2310, 25.1305



17.8489, 16.2310, 15.6284



14.6957, 16.2310, 11.8591

Rectangle

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



13.2349, 16.2310, 19.8881



14.5327, 16.2310, 24.9084



17.8489, 16.2310, 15.6284



16.3575, 16.2310, 11.9947

Sweetspot

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



13.2354, 16.2316, 19.8885



28.5901, 31.5863, 35.8428



11.4088, 15.5074, 9.9818



6.7071, 7.4504, 8.4912



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.



13.2354, 16.2316, 19.8885



22.4831, 28.4380, 35.5564



11.2102, 12.1811, 19.2138



3.7833, 4.1553, 4.6929



10.5462, 15.4325, 20.9643



51.3930, 75.2045, 102.1613

Inverse Universe

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



11.9250, 10.2390, 8.9380



19.7657, 16.0111, 12.8483



13.5040, 13.3970, 9.4641



3.6840, 3.7009, 3.8625



8.0828, 4.1668, 0.3784



39.3886, 20.3055, 1.8436

Previews

White Background



This preview shows how the XYZ color 13.2349, 16.2310, 19.8881 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 13.2349, 16.2310, 19.8881 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 13.2349, 16.2310, 19.8881

Background



This preview shows how black text looks on a background with the XYZ color 13.2349, 16.2310, 19.8881.



This preview shows how white text looks on a background with the XYZ color 13.2349, 16.2310,

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

13.2349, 16.2310, 19.8881

Protanopia

15.5318, 16.0945, 18.2075

Deuteranopia

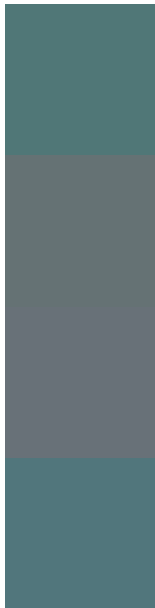
16.3910, 16.1693, 20.3462



Tritanopia

13.7889, 16.2830, 22.4949

Trichromacy



Original Color

13.2349, 16.2310, 19.8881

Protanomaly

14.5365, 16.0623, 18.8572

Deuteranomaly

15.0042, 16.1094, 20.0879

Tritanomaly

13.5099, 16.1614, 21.4762

Monochromacy



Original Color

13.2349, 16.2310, 19.8881

Achromatopsia

13.9749, 14.7027, 16.0113

Achromatomaly

13.4834, 15.0580, 17.2347

CSS Examples

Text

The CSS property to change the color of the text to XYZ 13.2349, 16.2310, 19.8881 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(80, 119, 119)` looks like.

```
.text, #text, p{  
    color:rgb(80, 119, 119)  
}
```

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(80, 119, 119) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(80, 119, 119) }
```

Border

The CSS property to change the border of an element to XYZ 13.2349, 16.2310, 19.8881 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(80, 119, 119) }
```


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

```
.border{ border-color:rgb(80, 119, 119) }
```

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

Here you see how a box with a 4 pixel `rgb(80, 119, 119)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(80, 119, 119); -webkit-box-  
shadow:4px 4px 4px 4px rgb(80, 119, 119);  
box-shadow:4px 4px 4px 4px rgb(80, 119,  
119) }
```

Background

The CSS property to change the background color of an element to XYZ 13.2349, 16.2310, 19.8881 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(80, 119, 119) }
```

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

```
.background{ background-color: rgb(80, 119,  
119) }
```

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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