

Converting Colors

XYZ(13.4413, 16.0977, 20.2422)

Have a look what the booklet for
XYZ(13.4413, 16.0977, 20.2422)
contains.

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Color

**XYZ(13.4359, 16.1519,
20.1788)**

Conversions

Conversions Part 1

Format	Color
Hex	537678
RGB	83, 118, 120
RGB Percent	33%, 46%, 47%
CMY	0.6745, 0.5372, 0.5294
CMYK	0.31, 0.02, 0.00, 0.53
HSL	183°, 18%, 40%
HSV	183°, 31%, 47%
XYZ	13.4359, 16.1519, 20.1788
YIQ	107.7630, -21.5020, -6.7980

Conversions

Conversions Part 2

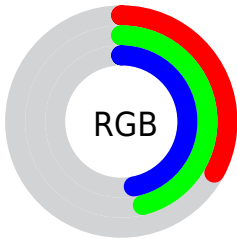
Format	Color
R_{YB}	83, 101, 120
Decimal	5469816
CIE _{Lab}	47.17, -11.84, -5.11
CIE _{LCh}	47, 12.890, 203.345
Yxy	16.1519, 0.2700, 0.3246
Android (android.graphics.Color)	4283659896 (0xFF537678)
YUV	107.7630, 6.0328, -21.7172
Hunter-Lab	40.1894, -10.6564, -1.6365

Details

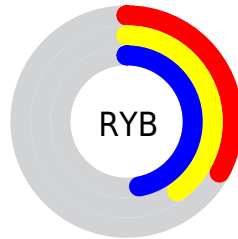
The XYZ color **13.4359, 16.1519, 20.1788** is a dark color, and the websafe version is hex **336666**. A complement of this color would be **12.5559, 11.1149, 9.6677**, and the grayscale version is **14.1759, 14.9141, 16.2415**.

A 20% lighter version of the original color is **31.6526, 36.7963, 44.4639**, and **4.0530, 5.2055, 6.9220** is the 20% darker color. If you saturate the color by 10%, you get **12.3915, 15.5009, 20.1085**, and if you desaturate by 10%, it is **14.6651, 16.8997, 20.2586**.

Distribution



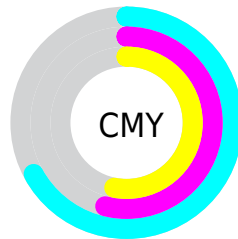
- Red (33%)
- Green (46%)
- Blue (47%)



- Red (33%)
- Yellow (40%)
- Blue (47%)



- Cyan (31%)
- Magenta (2%)
- Yellow (0%)
- Black (53%)



- Cyan (67%)
- Magenta (54%)
- Yellow (53%)

Brightness & Saturation Gradients

These gradients show how the XYZ color 13.4359, 16.1519, 20.1788 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 13.4359, 16.1519, 20.1788 by changing the saturation by 10% instead.

■ 13.4359, 16.1519,
20.1788

■ 13.4359, 16.1519,
20.1788

207.2743,
230.2364, 265.5176

■ 7.8085, 9.6317,
12.3397

■ 31.6794, 36.8617,
44.5797

■ 4.0234, 5.1555,
6.8501

■ 45.0262, 51.8201,
61.9785

■ 1.7154, 2.3388,
3.2915

■ 61.6767, 70.3600,
83.4010

■ 0.4659, 0.7941,
1.2454

■ 81.9965, 92.8659,
109.2658

■ 0.0000, 0.0000,
0.0164

■ 106.3508,
119.7221, 139.9912

■ 0.0000, 0.0000,
0.0000

135.1049,

151.3129, 175.9960

168.6243,
188.0229, 217.6986

■ 13.4359, 16.1519,
20.1788

■ 13.4359, 16.1519,
20.1788

■ 12.3915, 15.5009,
20.1085

■ 14.6651, 16.8997,
20.2586

■ 11.5210, 14.9400,
20.0461

■ 16.0863, 17.7469,
20.3472

■ 10.8146, 14.4644,
19.9915

■ 17.7084, 18.6984,
20.4454

■ 10.2609, 14.0684,
19.9443

■ 19.5390, 19.7582,
20.5535

■ 9.8471, 13.7452,
19.9037

■ 21.5854, 20.9300,
20.6718

■ 9.5582, 13.4872,
19.8691

■ 23.8546, 22.2175,
20.8007

■ 9.3533, 13.2822,
19.8403

■ 26.3532, 23.6240,
20.9405

■ 29.0877, 25.1529,
21.0915

■ 32.0641, 26.8073,
21.2539

Harmonies

Analogous

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



13.2866, 16.1519, 16.8729



13.4359, 16.1519, 20.1788



14.0868, 16.1519, 23.0865

Triad

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



13.4359, 16.1519, 20.1788



17.1682, 16.1519, 21.5839



15.6060, 16.1519, 12.0852

Complementary

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



13.4359, 16.1519, 20.1788



12.5559, 11.1149, 9.6677

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.



16.6906, 16.1519, 13.0380



13.4359, 16.1519, 20.1788



17.6208, 16.1519, 18.3203

Square

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



13.4359, 16.1519, 20.1788



16.2322, 16.1519, 23.9650



17.4419, 16.1519, 15.2266



14.5041, 16.1519, 12.4542

Rectangle

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



13.4359, 16.1519, 20.1788



14.7355, 16.1519, 24.2726



17.4419, 16.1519, 15.2266



15.9853, 16.1519, 12.2573

Sweetspot

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



13.4364, 16.1525, 20.1792



28.7281, 31.4703, 35.8133



11.9179, 15.9258, 11.0094



6.7303, 7.4122, 8.4826



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.



13.4364, 16.1525, 20.1792



22.2992, 27.5814, 35.4015



11.4815, 12.2428, 19.5276



4.0894, 4.4771, 5.0918



10.2004, 14.4833, 21.6432



48.4535, 68.6796, 103.1725

Inverse Universe

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



14.1094, 11.4880, 18.6140



23.6944, 18.0393, 32.1285



14.1926, 14.3883, 10.2133



4.1456, 4.0740, 4.9643



11.7320, 5.6690, 17.6777



55.8602, 27.0004, 83.7829

Previews

White Background



This preview shows how the XYZ color 13.4359, 16.1519, 20.1788 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 13.4359, 16.1519, 20.1788 looks on a black background.

Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA × Fail

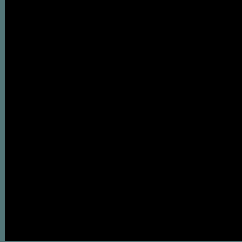
Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail

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

XYZ 13.4359, 16.1519, 20.1788

Background



This preview shows how black text looks on a background with the XYZ color 13.4359, 16.1519, 20.1788.



This preview shows how white text looks on a background with the XYZ color 13.4359, 16.1519,

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

13.4359, 16.1519, 20.1788

Protanopia

15.5189, 16.0746, 18.8078

Deuteranopia

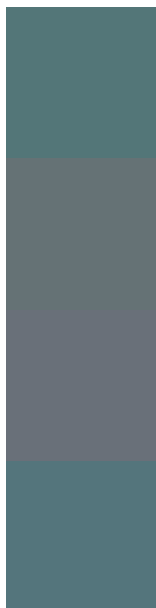
16.2115, 15.9122, 20.6293



Tritanopia

13.8735, 16.1602, 22.1267

Trichromacy



Original Color

13.4359, 16.1519, 20.1788

Protanomaly

14.5950, 16.0857, 19.1652

Deuteranomaly

15.0711, 15.9721, 20.3777

Tritanomaly

13.6555, 16.0626, 21.4495

Monochromacy



Original Color

13.4359, 16.1519, 20.1788

Achromatopsia

14.2537, 14.9960, 16.3306

Achromatomaly

13.8644, 15.4108, 17.5731

CSS Examples

Text

The CSS property to change the color of the text to XYZ 13.4359, 16.1519, 20.1788 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(83, 118, 120)` looks like.

```
.text, #text, p{  
    color:rgb(83, 118, 120)  
}
```

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(83, 118, 120) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(83, 118, 120) }
```

Border

The CSS property to change the border of an element to XYZ 13.4359, 16.1519, 20.1788 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(83, 118, 120) }
```


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

```
.border{ border-color:rgb(83, 118, 120) }
```

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

Here you see how a box with a 4 pixel `rgb(83, 118, 120)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(83, 118, 120); -webkit-box-  
shadow:4px 4px 4px 4px rgb(83, 118, 120);  
box-shadow:4px 4px 4px 4px rgb(83, 118,  
120) }
```

Background

The CSS property to change the background color of an element to XYZ 13.4359, 16.1519, 20.1788 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(83, 118, 120) }
```

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

```
.background{ background-color: rgb(83, 118,  
120) }
```

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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