

Converting Colors

XYZ(13.4533, 20.4959, 19.0107)

Have a look what the booklet for
XYZ(13.4533, 20.4959, 19.0107)
contains.

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Color

**XYZ(13.4409, 20.5063,
18.8725)**

Conversions

Conversions Part 1

Format	Color
Hex	2D8C71
RGB	45, 140, 113
RGB Percent	18%, 55%, 44%
CMY	0.8235, 0.4510, 0.5569
CMYK	0.68, 0.00, 0.19, 0.45
HSL	163°, 51%, 36%
HSV	163°, 68%, 55%
XYZ	13.4409, 20.5063, 18.8725
YIQ	108.5170, -47.9530, -28.5370

Conversions

Conversions Part 2

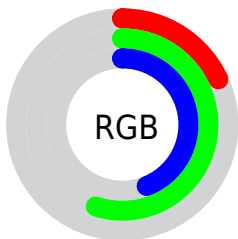
Format	Color
R_{YB}	45, 100, 140
Decimal	2985073
CIE _{Lab}	52.40, -34.35, 6.43
CIE _{LCh}	52, 34.949, 169.402
Yxy	20.5063, 0.2545, 0.3882
Android (android.graphics.Color)	4281175153 (0xFF2D8C71)
YUV	108.5170, 2.2101, -55.7044
Hunter-Lab	45.2839, -26.2655, 6.9890

Details

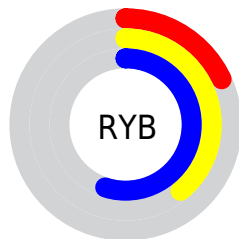
The XYZ color **13.4409, 20.5063, 18.8725** is a dark color, and the websafe version is hex **339966**. A complement of this color would be **12.9240, 7.9206, 6.9793**, and the grayscale version is **14.4034, 15.1535, 16.5022**.

A 20% lighter version of the original color is **31.6768, 44.1838, 42.4561**, and **4.5265, 7.5264, 6.2152** is the 20% darker color. If you saturate the color by 10%, you get **12.7051, 20.1528, 17.6945**, and if you desaturate by 10%, it is **14.3920, 20.9707, 20.1128**.

Distribution



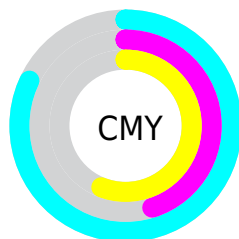
- Red (18%)
- Green (55%)
- Blue (44%)



- Red (18%)
- Yellow (39%)
- Blue (55%)



- Cyan (68%)
- Magenta (0%)
- Yellow (19%)
- Black (45%)



- Cyan (82%)
- Magenta (45%)
- Yellow (56%)

Brightness & Saturation Gradients

These gradients show how the XYZ color 13.4409, 20.5063, 18.8725 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 13.4409, 20.5063, 18.8725 by changing the saturation by 10% instead.

■ 13.4409, 20.5063,
18.8725

■ 13.4409, 20.5063,
18.8725

207.3053,
254.6430, 258.1432

■ 7.8119, 12.7636,
11.4023

■ 31.6883, 44.2644,
42.3524

■ 4.0256, 7.2660,
6.2206

■ 45.0374, 61.0486,
59.1991

■ 1.7166, 3.6290,
2.9087

■ 61.6906, 81.6155,
80.0085

■ 0.4667, 1.4683,
1.0482

■ 82.0132, 106.3494,
105.1990

■ 0.0000, 0.2662,
0.0000

■ 106.3706,
135.6346, 135.1892

■ 0.0000, 0.0000,
0.0000

■ 135.1282,

169.8557, 170.3976

168.6513,
209.3971, 211.2427

■ 13.4409, 20.5063,
18.8725

■ 13.4409, 20.5063,
18.8725

■ 12.7051, 20.1528,
17.6945

■ 14.3920, 20.9707,
20.1128

■ 12.1617, 19.8969,
16.5756

■ 15.5751, 21.5530,
21.4154

■ 11.7681, 19.7171,
15.5138

■ 17.0070, 22.2624,
22.7823

■ 11.6889, 19.6810,
15.2928

■ 18.7027, 23.1066,
24.2146

■ 20.6758, 24.0926,
25.7137

■ 22.9389, 25.2270,
27.2808

■ 25.5040, 26.5157,
28.9169

■ 28.3822, 27.9647,
30.6232

■ 31.5842, 29.5794,
32.4008

Harmonies

Analogous

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



14.6875, 20.5063, 11.7416



13.4409, 20.5063, 18.8725



13.6570, 20.5063, 29.5921

Triad

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



13.4409, 20.5063, 18.8725



21.8848, 20.5063, 46.7707



24.3577, 20.5063, 10.3931

Complementary

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



13.4409, 20.5063, 18.8725



12.9240, 7.9206, 6.9793

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.



26.7860, 20.5063, 16.3618



13.4409, 20.5063, 18.8725



25.2410, 20.5063, 37.8960

Square

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



13.4409, 20.5063, 18.8725



18.2435, 20.5063, 48.0737



27.1279, 20.5063, 26.1812



20.7933, 20.5063, 7.9483

Rectangle

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



13.4409, 20.5063, 18.8725



14.6106, 20.5063, 37.4460



27.1279, 20.5063, 26.1812



25.3517, 20.5063, 11.9497

Sweetspot

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



13.4415, 20.5071, 18.8730



35.5106, 42.0044, 44.6434



12.6381, 20.3825, 5.7511



7.9801, 9.5776, 10.1349



67.5393, 71.0566, 77.3807



10.1266, 10.6539, 11.6021

Same Dimension

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



13.4415, 20.5071, 18.8730



21.8941, 35.2899, 30.2251



12.6538, 16.1268, 27.2577



5.1132, 5.6648, 6.1173



10.3944, 17.4904, 13.6336



0.0754, 0.1187, 0.1238

Inverse Universe

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



12.9240, 7.9206, 6.9793



20.9586, 11.5198, 7.9712



13.1229, 9.4323, 3.6119



5.0875, 5.0705, 5.5494



9.9547, 5.0920, 2.2656



0.0718, 0.0361, 0.0448

Previews

White Background



This preview shows how the XYZ color 13.4409, 20.5063, 18.8725 looks on a white 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

Black Background



This preview shows how the XYZ color 13.4409, 20.5063, 18.8725 looks on a black 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

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

XYZ 13.4409, 20.5063, 18.8725

Background



This preview shows how black text looks on a background with the XYZ color 13.4409, 20.5063, 18.8725.



This preview shows how white text looks on a background with the XYZ color 13.4409, 20.5063,

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

13.4409, 20.5063, 18.8725

Protanopia

19.1175, 20.2605, 16.2677

Deuteranopia

20.5748, 20.2063, 19.6454



Tritanopia

15.7158, 20.3639, 30.2965

Trichromacy



Original Color

13.4409, 20.5063, 18.8725

Protanomaly

15.9449, 19.7573, 17.1605

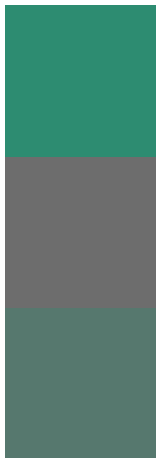
Deuteranomaly

16.5675, 19.4430, 19.4027

Tritanomaly

14.8243, 20.4248, 25.7153

Monochromacy



Original Color

13.4409, 20.5063, 18.8725

Achromatopsia

14.5356, 15.2926, 16.6537

Achromatomaly

13.3687, 16.5372, 17.2392

CSS Examples

Text

The CSS property to change the color of the text to XYZ 13.4409, 20.5063, 18.8725 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(45, 140, 113)` looks like.

```
.text, #text, p{  
  color:rgb(45, 140, 113)  
}
```

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(45, 140, 113) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(45, 140, 113) }
```

Border

The CSS property to change the border of an element to XYZ 13.4409, 20.5063, 18.8725 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(45, 140, 113) }
```


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

```
.border{ border-color:rgb(45, 140, 113) }
```

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

Here you see how a box with a 4 pixel rgb(45, 140, 113) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(45, 140, 113); -webkit-box-  
shadow:4px 4px 4px 4px rgb(45, 140, 113);  
box-shadow:4px 4px 4px 4px rgb(45, 140,  
113) }
```

Background

The CSS property to change the background color of an element to XYZ 13.4409, 20.5063, 18.8725 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(45, 140, 113) }
```

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

```
.background{ background-color: rgb(45, 140,  
113) }
```

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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