

Converting Colors

XYZ(12.3686, 20.1616, 9.4569)

Have a look what the booklet for
XYZ(12.3686, 20.1616, 9.4569)
contains.

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Color

**XYZ(12.3843, 20.1670,
9.5432)**

Conversions

Conversions Part 1

Format	Color
Hex	3B8C49
RGB	59, 140, 73
RGB Percent	23%, 55%, 29%
CMY	0.7686, 0.4510, 0.7137
CMYK	0.58, 0.00, 0.48, 0.45
HSL	130°, 41%, 39%
HSV	130°, 58%, 55%
XYZ	12.3843, 20.1670, 9.5432
YIQ	108.1430, -26.7690, -38.0090

Conversions

Conversions Part 2

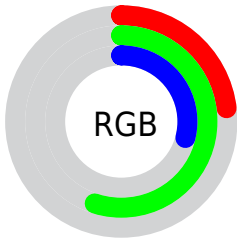
Format	Color
R_{YB}	59, 128, 140
Decimal	3902537
CIE _{Lab}	52.03, -39.73, 28.45
CIE _{LCh}	52, 48.864, 144.399
Yxy	20.1670, 0.2942, 0.4791
Android (android.graphics.Color)	4282092617 (0xFF3B8C49)
YUV	108.1430, -17.3255, -43.0984
Hunter-Lab	44.9077, -29.3631, 18.8358

Details

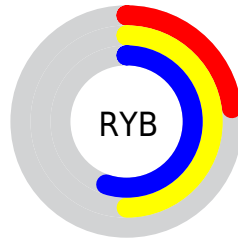
The XYZ color **12.3843, 20.1670, 9.5432** is a dark color, and the websafe version is hex **339966**. A complement of this color would be **16.1457, 10.2101, 20.8590**, and the grayscale version is **14.3469, 15.0941, 16.4375**.

A 20% lighter version of the original color is **29.8064, 43.5910, 25.5818**, and **3.7588, 7.2193, 2.1726** is the 20% darker color. If you saturate the color by 10%, you get **11.3144, 19.6563, 7.6723**, and if you desaturate by 10%, it is **13.7493, 20.8227, 11.8020**.

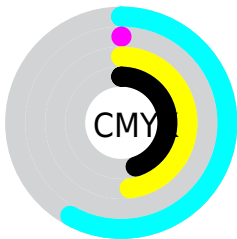
Distribution



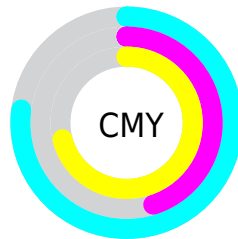
- Red (23%)
- Green (55%)
- Blue (29%)



- Red (23%)
- Yellow (50%)
- Blue (55%)



- Cyan (58%)
- Magenta (0%)
- Yellow (48%)
- Black (45%)





- Cyan (77%)
- Magenta (45%)
- Yellow (71%)

Brightness & Saturation Gradients


These gradients show how the XYZ color 12.3843, 20.1670, 9.5432 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 12.3843, 20.1670, 9.5432 by changing the saturation by 10% instead.


 12.3843, 20.1670,
9.5432


 12.3843, 20.1670,
9.5432


200.6515,
252.8178, 197.7449


 7.0800, 12.5165,
4.9955


 29.8039, 43.6970,
25.5269


 3.5590, 7.0965,
2.1859


 42.6500, 60.3453,
37.8001


 1.4558, 3.5225,
0.6662

 58.7407, 80.7616,
53.4855

 0.2955, 1.4102,
0.0000

 78.4415, 105.3304,
73.0016

 0.0000, 0.2242,
0.0000

 102.1176,
134.4360, 96.7671

 0.0000, 0.0000,
0.0000

130.1344,

168.4628, 125.2004

162.8572,
207.7953, 158.7202

■ 12.3843, 20.1670,
9.5432

■ 12.3843, 20.1670,
9.5432

■ 11.3144, 19.6563,
7.6723

■ 13.7493, 20.8227,
11.8020

■ 10.5158, 19.2772,
6.1663

■ 15.4279, 21.6308,
14.4676

■ 9.9637, 19.0177,
5.0015

■ 17.4386, 22.6010,
17.5590

■ 9.6102, 18.8540,
4.1503

■ 19.7982, 23.7416,
21.0938

■ 9.5454, 18.8237,
4.0053

■ 22.5222, 25.0603,
25.0885

■ 25.6255, 26.5644,
29.5589

■ 29.1217, 28.2605,
34.5199

■ 33.0241, 30.1553,
39.9857

■ 37.3451, 32.2549,
45.9702

Harmonies

Analogous

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



15.4757, 20.1670, 5.2481



12.3843, 20.1670, 9.5432



11.1251, 20.1670, 19.3873

Triad

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



12.3843, 20.1670, 9.5432



18.2480, 20.1670, 62.1636



29.2869, 20.1670, 12.4603

Complementary

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



12.3843, 20.1670, 9.5432



16.1457, 10.2101, 20.8590

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.



30.3748, 20.1670, 24.7474



12.3843, 20.1670, 9.5432



23.4056, 20.1670, 57.6352

Square

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



12.3843, 20.1670, 9.5432



14.1132, 20.1670, 52.6872



28.0636, 20.1670, 42.1235



25.3055, 20.1670, 6.3487

Rectangle

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



12.3843, 20.1670, 9.5432



11.3037, 20.1670, 29.5150



28.0636, 20.1670, 42.1235



30.0291, 20.1670, 15.8161

Sweetspot

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



12.3848, 20.1678, 9.5437



35.1279, 41.9644, 37.5199



18.8464, 23.5466, 7.6894



7.9169, 9.5838, 8.3824



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.



12.3848, 20.1678, 9.5437



19.5370, 34.4585, 12.7763



14.1629, 20.8791, 18.9070



5.0049, 5.6214, 5.5466



8.4867, 16.7273, 3.5878



0.0602, 0.1126, 0.0439

Inverse Universe

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



16.1457, 10.2101, 20.8590



26.7858, 15.1894, 34.5294



14.0594, 9.3756, 9.8730



5.1974, 5.1144, 6.1278



12.4069, 6.0729, 15.1791



0.0870, 0.0422, 0.1247

Previews

White Background



This preview shows how the XYZ color 12.3843, 20.1670, 9.5432 looks on a white background.

Color Contrast Check

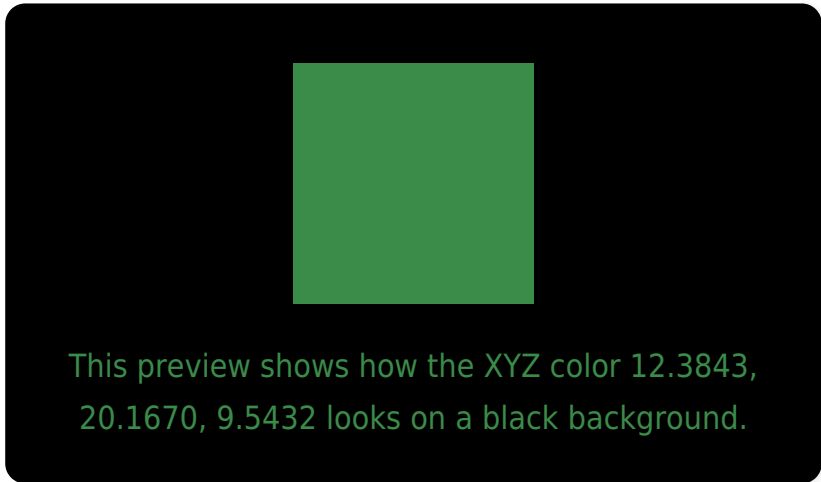
Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail

Black Background



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 12.3843, 20.1670, 9.5432

Background



This preview shows how black text looks on a background with the XYZ color 12.3843, 20.1670, 9.5432.



This preview shows how white text looks on a background with the XYZ color 12.3843, 20.1670,

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

12.3843, 20.1670, 9.5432

Protanopia

18.2494, 19.8054, 8.1712

Deuteranopia

20.2480, 19.8965, 9.9809



Tritanopia

16.2698, 20.0635, 29.0017

Trichromacy



Original Color

12.3843, 20.1670, 9.5432

Protanomaly

15.1088, 19.3183, 8.5627

Deuteranomaly

15.9678, 19.1565, 9.6935

Tritanomaly

14.4598, 19.9380, 20.2259

Monochromacy



Original Color

12.3843, 20.1670, 9.5432

Achromatopsia

14.2537, 14.9960, 16.3306

Achromatomaly

12.9985, 16.4328, 13.3132

CSS Examples

Text

The CSS property to change the color of the text to XYZ 12.3843, 20.1670, 9.5432 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(59, 140, 73)` looks like.

```
.text, #text, p{  
    color:rgb(59, 140, 73)  
}
```

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(59, 140, 73) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(59, 140, 73) }
```

Border

The CSS property to change the border of an element to XYZ 12.3843, 20.1670, 9.5432 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(59, 140, 73) }
```


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

```
.border{ border-color:rgb(59, 140, 73) }
```

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

Here you see how a box with a 4 pixel rgb(59, 140, 73) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(59, 140, 73); -webkit-box-  
shadow:4px 4px 4px 4px rgb(59, 140, 73);  
box-shadow:4px 4px 4px 4px rgb(59, 140,  
73) }
```

Background

The CSS property to change the background color of an element to XYZ 12.3843, 20.1670, 9.5432 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(59, 140, 73) }
```

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

```
.background{ background-color: rgb(59, 140,  
73) }
```

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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