

Converting Colors

XYZ(36.9755, 19.3985, 2.4229)

Have a look what the booklet for
XYZ(36.9755, 19.3985, 2.4229)
contains.

XYZ(36.9684, 19.3900, 2.4103)	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(36.9684, 19.3900,
2.4103)**

Conversions

Conversions Part 1

Format	Color
Hex	F21313
RGB	242, 19, 19
RGB Percent	95%, 7%, 7%
CMY	0.0510, 0.9253, 0.9255
CMYK	0.00, 0.92, 0.92, 0.05
HSL	0°, 90%, 51%
HSV	0°, 92%, 95%
XYZ	36.9684, 19.3900, 2.4103
YIQ	85.6770, 132.9080, 47.2760

Conversions

Conversions Part 2

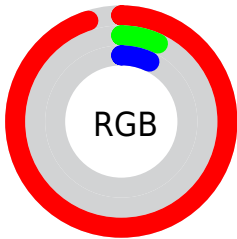
Format	Color
R_{YB}	242, 19, 19
Decimal	15864595
CIE Lab	51.14, 75.58, 59.60
CIE LCh	51, 96.254, 38.259
Yxy	19.3900, 0.6290, 0.3299
Android (android.graphics.Color)	4294054675 (0xFFFF21313)
YUV	85.6770, -32.8718, 137.0953
Hunter-Lab	44.0341, 72.7984, 27.5785

Details

The XYZ color **36.9684, 19.3900, 2.4103** is a dark color, and the websafe version is hex **FF0000**. The color can be described as dark washed red. A complement of this color would be **48.0358, 70.0299, 94.9892**, and the grayscale version is **8.8290, 9.2888, 10.1155**.

A 20% lighter version of the original color is **46.6819, 30.4250, 9.0424**, and **17.6792, 9.1140, 0.8274** is the 20% darker color. If you saturate the color by 10%, you get **36.6182, 18.8780, 1.7138**, and if you desaturate by 10%, it is **37.9299, 20.7980, 4.3202**.

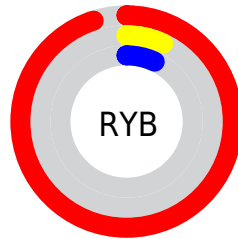
Distribution



Red (95%)

Green (7%)

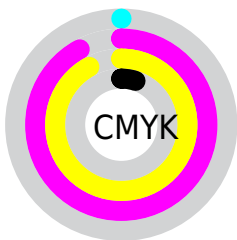
Blue (7%)



Red (95%)

Yellow (7%)

Blue (7%)

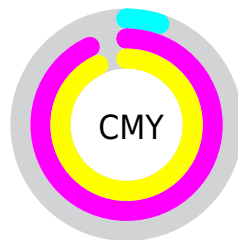


Cyan (0%)

Magenta (92%)

Yellow (92%)

Black (5%)



Cyan (5%)


Magenta (93%)


Yellow (93%)

Brightness & Saturation Gradients


These gradients show how the XYZ color 36.9684, 19.3900, 2.4103 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 36.9684, 19.3900, 2.4103 by changing the saturation by 10% instead.


 36.9684, 19.3900,
2.4103


 36.9684, 19.3900,
2.4103


324.5316,
248.5934, 128.4538


 25.3566, 11.9524,
0.7920


 69.8383, 42.3921,
10.1349

 16.4731, 6.7113,
0.0000


 91.8272, 58.7254,
17.0884

 9.9525, 3.2822,
0.0000


 118.0057, 78.7927,
26.6607

 5.4295, 1.2808,
0.0000

 148.7393,
102.9784, 39.2704

 2.5387, 0.1262,
0.0000

 184.3934,
131.6669, 55.3360


 0.9148, 0.0000,
0.0000


 225.3332,


 0.0000, 0.0000,


165.2427, 75.2761


0.0000


 271.9241,
204.0900, 99.5092


 36.9684, 19.3900,
2.4103


 36.9684, 19.3900,
2.4103


 36.6182, 18.8780,
1.7138

 37.9299, 20.7980,
4.3202

 39.6758, 23.3530,
7.7899

 42.3270, 27.2327,
13.0596

 45.9835, 32.5834,
20.3280

 50.7322, 39.5322,
29.7679

■ 56.6505, 48.1924,
41.5334

■ 63.8090, 58.6672,
55.7645

■ 72.2725, 71.0514,
72.5905

■ 82.1014, 85.4334,
92.1312

Harmonies

Analogous

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



43.2753, 19.3900, 14.4146



36.9684, 19.3900, 2.4103



26.1147, 19.3900, 0.0000

Triad

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



36.9684, 19.3900, 2.4103



6.0821, 19.3900, 6.9963



21.1995, 19.3900, 127.8825

Complementary

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



36.9684, 19.3900, 2.4103



48.0358, 70.0299, 94.9892

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.



12.4229, 19.3900, 117.5419



36.9684, 19.3900, 2.4103



5.5640, 19.3900, 29.6177

Square

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



36.9684, 19.3900, 2.4103



9.2268, 19.3900, 0.8804



7.4329, 19.3900, 73.3968



32.3228, 19.3900, 95.3422

Rectangle

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



36.9684, 19.3900, 2.4103



18.9938, 19.3900, 0.0000



7.4329, 19.3900, 73.3968



17.8767, 19.3900, 129.6248

Sweetspot

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



36.9688, 19.3912, 2.4106



66.9099, 58.8241, 52.9555



52.8775, 25.7537, 86.1878



13.6157, 11.5581, 9.9316



0.0000, 0.0000, 0.0000



20.3446, 21.4041, 23.3091

Same Dimension

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



36.9688, 19.3912, 2.4106



41.2405, 21.2610, 1.9302



44.7846, 35.0228, 5.0158



15.7731, 15.7593, 16.3602



19.6718, 10.1417, 0.9207



1.6366, 0.8438, 0.0766

Inverse Universe

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



48.0358, 70.0299, 94.9892



53.7958, 78.7117, 106.9653



24.3448, 22.6479, 87.0922



16.2472, 17.9285, 20.3258



25.6607, 37.5457, 51.0225



2.1348, 3.1236, 4.2446

Previews

White Background



This preview shows how the XYZ color 36.9684, 19.3900, 2.4103 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 36.9684, 19.3900, 2.4103 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 36.9684, 19.3900, 2.4103

Background



This preview shows how black text looks on a background with the XYZ color 36.9684, 19.3900, 2.4103.



This preview shows how white text looks on a background with the XYZ color 36.9684, 19.3900,

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

36.9684, 19.3900, 2.4103

Protanopia

17.7825, 19.6375, 4.8607

Deuteranopia

19.8789, 19.6911, 2.7530



Tritanopia

36.8861, 19.4136, 1.8031

Trichromacy



Original Color

36.9684, 19.3900, 2.4103

Protanomaly

21.1884, 15.7152, 3.2831

Deuteranomaly

23.4743, 16.4650, 2.1418

Tritanomaly

36.9065, 19.3929, 1.9990

Monochromacy



Original Color

36.9684, 19.3900, 2.4103

Achromatopsia

8.8453, 9.3059, 10.1341

Achromatomaly

13.9198, 9.6327, 5.6831

CSS Examples

Text

The CSS property to change the color of the text to XYZ 36.9684, 19.3900, 2.4103 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(242, 19, 19)` looks like.

```
.text, #text, p{  
    color:rgb(242, 19, 19)  
}
```

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(242, 19, 19) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(242, 19, 19) }
```

Border

The CSS property to change the border of an element to XYZ 36.9684, 19.3900, 2.4103 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(242, 19, 19) }
```


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

```
.border{ border-color:rgb(242, 19, 19) }
```

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

Here you see how a box with a 4 pixel `rgb(242, 19, 19)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(242, 19, 19); -webkit-box-  
shadow:4px 4px 4px 4px rgb(242, 19, 19);  
box-shadow:4px 4px 4px 4px rgb(242, 19,  
19) }
```

Background

The CSS property to change the background color of an element to XYZ 36.9684, 19.3900, 2.4103 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(242, 19, 19) }
```

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

```
.background{ background-color: rgb(242, 19,  
19) }
```

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