

Converting Colors

XYZ(19.0066, 9.7369, 3.6640)

Have a look what the booklet for
XYZ(19.0066, 9.7369, 3.6640)
contains.

XYZ(18.8936, 9.6784, 3.6686)	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(18.8936, 9.6784,
3.6686)**

Conversions

Conversions Part 1

Format	Color
Hex	B20030
RGB	178, 0, 48
RGB Percent	70%, 0%, 19%
CMY	0.3020, 0.9999, 0.8118
CMYK	0.00, 1.00, 0.73, 0.30
HSL	344°, 100%, 35%
HSV	344°, 100%, 70%
XYZ	18.8936, 9.6784, 3.6686
YIQ	58.6940, 90.6800, 52.6640

Conversions

Conversions Part 2

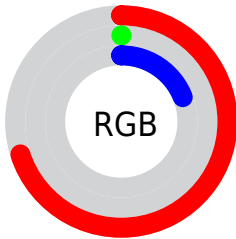
Format	Color
R_{YB}	178, 0, 48
Decimal	11665456
CIE _{Lab}	37.26, 62.24, 27.23
CIE _{LCh}	37, 67.938, 23.628
Yxy	9.6784, 0.5860, 0.3002
Android (android.graphics.Color)	4289855536 (0xFFB20030)
YUV	58.6940, -5.2721, 104.6314
Hunter-Lab	31.1101, 53.9627, 14.7854

Details

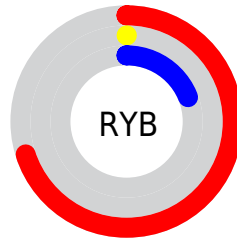
The XYZ color **18.8936, 9.6784, 3.6686** is a dark color, and the websafe version is hex **CC0033**. A complement of this color would be **19.9521, 33.4533, 26.5358**, and the grayscale version is **4.1160, 4.3303, 4.7157**.

A 20% lighter version of the original color is **41.1647, 25.2462, 13.2931**, and **7.3471, 3.7863, 0.4010** is the 20% darker color. If you saturate the color by 10%, you get **18.8930, 9.6781, 3.6661**, and if you desaturate by 10%, it is **19.4159, 10.2291, 5.3663**.

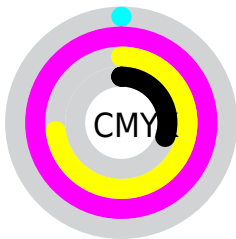
Distribution



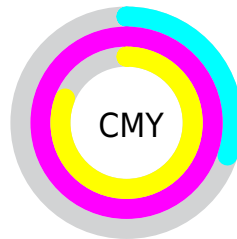
- Red (70%)
- Green (0%)
- Blue (19%)



- Red (70%)
- Yellow (0%)
- Blue (19%)



- Cyan (0%)
- Magenta (100%)
- Yellow (73%)
- Black (30%)




- Cyan (30%)
- Magenta (100%)
- Yellow (81%)

Brightness & Saturation Gradients

These gradients show how the XYZ color 18.8936, 9.6784, 3.6686 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 18.8936, 9.6784, 3.6686 by changing the saturation by 10% instead.


 18.8936, 9.6784,
3.6686


 18.8936, 9.6784,
3.6686


238.8101,
188.3611, 144.4674


 11.6970, 5.1863,
1.4454


 41.0725, 25.1888,
13.2379


 6.6084, 2.3570,
0.1767


 56.7855, 36.9759,
21.4211


 3.2626, 0.8036,
0.0000

 76.0679, 51.9634,
32.4280

 1.2941, 0.0000,
0.0000

 99.2853, 70.5357,
46.6772

 0.1788, 0.0000,
0.0000

 126.8028, 93.0772,
64.5872

 0.0000, 0.0000,
0.0000

 158.9859,

119.9724, 86.5765

196.1999,
151.6055, 113.0637

■ 18.8936, 9.6784,
3.6686

■ 18.8936, 9.6784,
3.6686

■ 18.8930, 9.6781,
3.6661

■ 19.4159, 10.2291,
5.3663

■ 20.2160, 11.1990,
7.5755

■ 21.3734, 12.7389,
10.3507

■ 22.9287, 14.9212,
13.7305

■ 24.9163, 17.8075,
17.7502

■ 27.3669, 21.4520,
22.4416

■ 30.3084, 25.9037,
27.8348

■ 33.7664, 31.2073,
33.9576

■ 37.7644, 37.4043,
40.8366

Harmonies

Analogous

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



19.9370, 9.6784, 13.3531



18.8936, 9.6784, 3.6686



14.9421, 9.6784, 0.6668

Triad

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



18.8936, 9.6784, 3.6686



4.0655, 9.6784, 1.8630



8.3220, 9.6784, 55.0650

Complementary

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



18.8936, 9.6784, 3.6686



19.9521, 33.4533, 26.5358

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.



5.1560, 9.6784, 42.8186



18.8936, 9.6784, 3.6686



3.2355, 9.6784, 8.1495

Square

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



18.8936, 9.6784, 3.6686



6.2986, 9.6784, 0.1396



3.5619, 9.6784, 22.9674



12.8760, 9.6784, 49.7747

Rectangle

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



18.8936, 9.6784, 3.6686



11.6985, 9.6784, 0.0000



3.5619, 9.6784, 22.9674



7.0836, 9.6784, 52.6795

Sweetspot

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



18.8938, 9.6790, 3.6687



54.6529, 46.5027, 49.9183



16.8745, 7.7714, 42.7298



11.5955, 9.5239, 10.1274



86.6293, 91.1408, 99.2523



17.0014, 17.8868, 19.4787

Same Dimension

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



18.8938, 9.6790, 3.6687



34.1795, 17.5180, 6.2161



19.0723, 10.8894, 1.0976



8.5873, 8.5416, 9.3253



13.5413, 6.9341, 2.7444



0.4510, 0.2281, 0.2176

Inverse Universe

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



18.8938, 9.6790, 3.6687



34.1795, 17.5180, 6.2161



17.3327, 21.8074, 45.4149



8.5873, 8.5416, 9.3253



13.5413, 6.9341, 2.7444



0.4510, 0.2281, 0.2176

Previews

White Background



This preview shows how the XYZ color 18.8936, 9.6784, 3.6686 looks on a white background.

Color Contrast Check

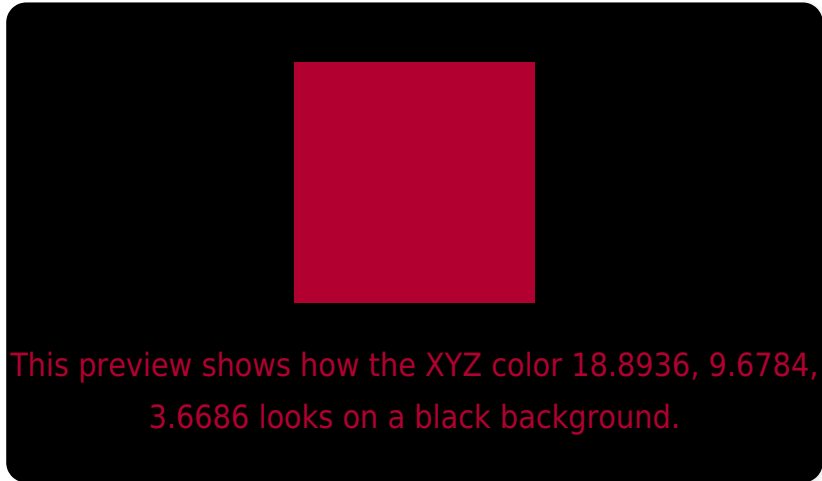
Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

Black Background



Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

Any Text WCAG AA × Fail

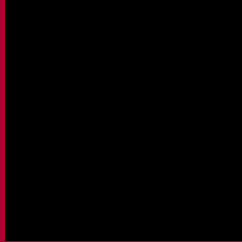
Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail

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

XYZ 18.8936, 9.6784, 3.6686

Background



This preview shows how black text looks on a background with the XYZ color 18.8936, 9.6784, 3.6686.



This preview shows how white text looks on a background with the XYZ color 18.8936, 9.6784,

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

18.8936, 9.6784, 3.6686

Protanopia

9.6497, 10.2670, 7.6040

Deuteranopia

10.3761, 10.2468, 3.3504



Tritanopia

18.4609, 9.8791, 1.3493

Trichromacy



Original Color

18.8936, 9.6784, 3.6686

Protanomaly

10.9645, 7.7208, 5.6150

Deuteranomaly

11.9374, 8.1338, 3.1313

Tritanomaly

18.4618, 9.7095, 1.8784

Monochromacy



Original Color

18.8936, 9.6784, 3.6686

Achromatopsia

4.1570, 4.3735, 4.7627

Achromatomaly

6.8622, 4.4868, 4.1188

CSS Examples

Text

The CSS property to change the color of the text to XYZ 18.8936, 9.6784, 3.6686 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(178, 0, 48)` looks like.

```
.text, #text, p{  
    color:rgb(178, 0, 48)  
}
```

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(178, 0, 48) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(178, 0, 48) }
```

Border

The CSS property to change the border of an element to XYZ 18.8936, 9.6784, 3.6686 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(178, 0, 48) }
```


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

```
.border{ border-color:rgb(178, 0, 48) }
```

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

Here you see how a box with a 4 pixel `rgb(178, 0, 48)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(178, 0, 48); -webkit-box-  
shadow:4px 4px 4px 4px rgb(178, 0, 48);  
box-shadow:4px 4px 4px 4px rgb(178, 0, 48)  
}
```

Background

The CSS property to change the background color of an element to XYZ 18.8936, 9.6784, 3.6686 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(178, 0, 48) }
```

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

```
.background{ background-color: rgb(178, 0,  
48) }
```

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