

# Converting Colors

XYZ(18.5020, 11.3309, 2.5784)

Have a look what the booklet for  
XYZ(18.5020, 11.3309, 2.5784)  
contains.

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# Color

**XYZ(18.5020, 11.3309,  
2.5784)**

# Conversions

## Conversions Part 1

<b>Format</b>	<b>Color</b>
Hex	AC3420
RGB	172, 52, 32
RGB Percent	67%, 20%, 13%
CMY	0.3255, 0.7960, 0.8745
CMYK	0.00, 0.70, 0.81, 0.33
HSL	9°, 69%, 40%
HSV	9°, 81%, 67%
XYZ	18.5020, 11.3309, 2.5784
YIQ	85.6000, 77.9400, 19.2200

# Conversions

## Conversions Part 2

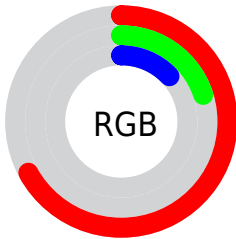
Format	Color
R <sub>Y</sub> B	172, 55, 32
Decimal	11285536
CIE Lab	40.13, 47.83, 39.35
CIE LCh	40, 61.932, 39.444
Yxy	11.3309, 0.5709, 0.3496
Android (android.graphics.Color)	4289475616 (0xFFAC3420)
YUV	85.6000, -26.4248, 75.7728
Hunter-Lab	33.6614, 39.2051, 19.0215

# Details

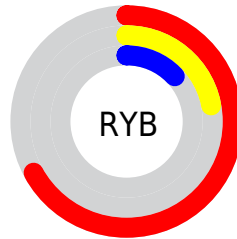
The XYZ color **18.5020, 11.3309, 2.5784** is a dark color, and the websafe version is hex **993300**. A complement of this color would be **19.2691, 25.7398, 42.9823**, and the grayscale version is **8.8038, 9.2623, 10.0866**.

A 20% lighter version of the original color is **40.4609, 28.3506, 10.5474**, and **6.6821, 3.4447, 0.3127** is the 20% darker color. If you saturate the color by 10%, you get **17.7679, 10.1443, 1.4661**, and if you desaturate by 10%, it is **19.5641, 12.9787, 4.4020**.

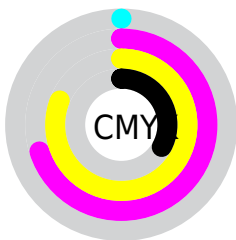
# Distribution



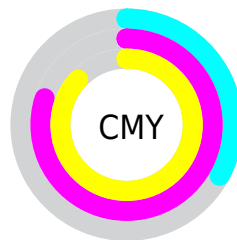
- Red (67%)
- Green (20%)
- Blue (13%)



- Red (67%)
- Yellow (22%)
- Blue (13%)



- Cyan (0%)
- Magenta (70%)
- Yellow (81%)
- Black (33%)




- Cyan (33%)
- Magenta (80%)
- Yellow (87%)


# Brightness & Saturation Gradients

These gradients show how the XYZ color 18.5020, 11.3309, 2.5784 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 18.5020, 11.3309, 2.5784 by changing the saturation by 10% instead.





 18.5020, 11.3309,  
2.5784


 18.5020, 11.3309,  
2.5784


236.6768,  
199.9239, 130.7952


 11.4129, 6.2899,  
0.8813


 40.4143, 28.2705,  
10.5691


 6.4146, 3.0221,  
0.0000


 55.9682, 40.9378,  
17.7021

 3.1418, 1.1433,  
0.0000

 75.0743, 56.9159,  
27.4849

 1.2292, 0.0146,  
0.0000

 98.0981, 76.5894,  
40.3361

 0.1292, 0.0000,  
0.0000

 125.4049,  
100.3425, 56.6742

 0.0000, 0.0000,  
0.0000

 157.3600,

128.5597, 76.9177

194.3289,  
161.6254, 101.4852

18.5020, 11.3309,  
2.5784

18.5020, 11.3309,  
2.5784

17.7679, 10.1443,  
1.4661

19.5641, 12.9787,  
4.4020

17.3519, 9.4481,  
0.9091

20.9875, 15.1269,  
7.0300

22.8020, 17.8129,  
10.5421

25.0342, 21.0698,  
15.0082

27.7080, 24.9282,  
20.4909

■ 30.8458, 29.4162,  
27.0479

■ 34.4684, 34.5605,  
34.7322

■ 38.5952, 40.3860,  
43.5934

■ 43.2447, 46.9163,  
53.6782

# Harmonies

## Analogous

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



21.1612, 11.3309, 8.8449



18.5020, 11.3309, 2.5784



13.9424, 11.3309, 0.7833

# Triad

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



18.5020, 11.3309, 2.5784



4.7337, 11.3309, 5.7496



12.1845, 11.3309, 53.5540

# Complementary

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



18.5020, 11.3309, 2.5784



19.2691, 25.7398, 42.9823

# 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.



8.1190, 11.3309, 50.4570



18.5020, 11.3309, 2.5784



4.4981, 11.3309, 16.6461

# Square

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



18.5020, 11.3309, 2.5784



6.3236, 11.3309, 1.5966



5.5623, 11.3309, 34.3322



16.9247, 11.3309, 41.1564



# Rectangle

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



18.5020, 11.3309, 2.5784



10.8502, 11.3309, 0.5079



5.5623, 11.3309, 34.3322



10.6896, 11.3309, 54.4098

# Sweetspot

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



18.5022, 11.3316, 2.5786



54.1402, 50.7708, 45.2468



23.3071, 12.1146, 31.3914



11.3377, 10.4213, 8.9380



82.5889, 86.8899, 94.6231



15.4596, 16.2647, 17.7123



# Same Dimension

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



18.5022, 11.3316, 2.5786



31.5175, 17.1777, 1.7834



24.0709, 22.4688, 4.4348



8.0942, 8.1932, 8.3682



12.9381, 7.0817, 0.6850



0.3878, 0.2528, 0.0283



# Inverse Universe

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



19.2691, 25.7398, 42.9823



32.6290, 43.5605, 77.4940



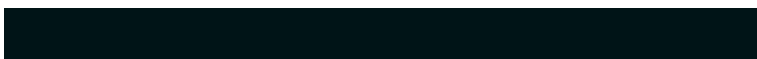
11.1609, 9.5233, 40.2795



8.1373, 8.8740, 10.2367



13.3850, 17.9038, 31.7948



0.3985, 0.5504, 0.8932



# Previews

## White Background



This preview shows how the XYZ color 18.5020, 11.3309, 2.5784 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

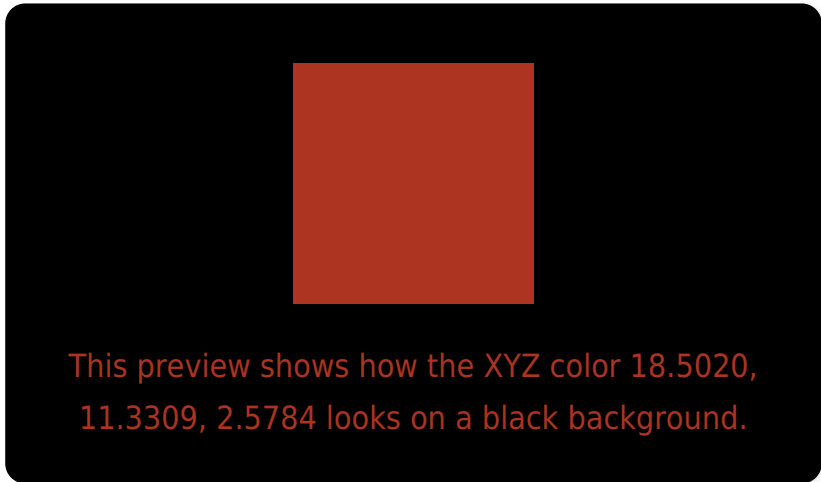
Any Text WCAG AA ✓ Pass

Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA × Fail



# Black Background



## 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 18.5020, 11.3309, 2.5784**

## **Background**



This preview shows how black text looks on a background with the XYZ color 18.5020, 11.3309, 2.5784.



This preview shows how white text looks on a background with the XYZ color 18.5020, 11.3309,

2.5784.

# 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

18.5020, 11.3309, 2.5784

### Protanopia

10.5814, 11.6118, 4.0665

### Deuteranopia

11.6131, 11.5257, 2.2744



## Tritanopia

18.9940, 11.4134, 4.4507

# Trichromacy



## Original Color

18.5020, 11.3309, 2.5784

## Protanomaly

12.4576, 10.6363, 3.4039

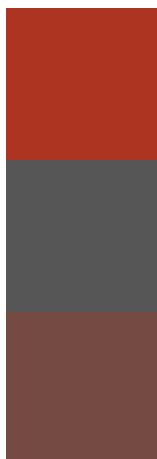
## Deuteranomaly

13.4662, 10.8627, 2.2511

## Tritanomaly

18.8911, 11.4414, 3.6954

# Monochromacy



## Original Color

18.5020, 11.3309, 2.5784

## Achromatopsia

8.8453, 9.3059, 10.1341

## Achromatomaly

10.7683, 9.0728, 6.3379

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 18.5020, 11.3309, 2.5784 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(172, 52, 32)` looks like.

```
.text, #text, p{  
    color:rgb(172, 52, 32)  
}
```

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(172, 52, 32) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(172, 52, 32) }
```

## Border

The CSS property to change the border of an element to XYZ 18.5020, 11.3309, 2.5784 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(172, 52, 32) }
```



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

```
.border{ border-color:rgb(172, 52, 32) }
```

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

Here you see how a box with a 4 pixel `rgb(172, 52, 32)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(172, 52, 32); -webkit-box-  
shadow:4px 4px 4px 4px rgb(172, 52, 32);  
box-shadow:4px 4px 4px 4px rgb(172, 52,  
32) }
```

# Background

The CSS property to change the background color of an element to XYZ 18.5020, 11.3309, 2.5784 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(172, 52, 32) }
```

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

```
.background{ background-color: rgb(172, 52,  
32) }
```

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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