

# Converting Colors

XYZ(20.3119, 13.7249, 3.7226)

Have a look what the booklet for  
XYZ(20.3119, 13.7249, 3.7226)  
contains.

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# Color

**XYZ(20.3504, 13.7876,  
3.7792)**

# Conversions

## Conversions Part 1

<b>Format</b>	<b>Color</b>
Hex	AF472A
RGB	175, 71, 42
RGB Percent	69%, 28%, 16%
CMY	0.3137, 0.7215, 0.8353
CMYK	0.00, 0.59, 0.76, 0.31
HSL	13°, 61%, 43%
HSV	13°, 76%, 69%
XYZ	20.3504, 13.7876, 3.7792
YIQ	98.7900, 71.2930, 13.0290

# Conversions

## Conversions Part 2

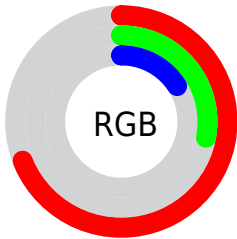
<b>Format</b>	<b>Color</b>
<b>R<sub>YB</sub></b>	175, 79, 42
Decimal	11487018
CIE Lab	43.93, 40.82, 38.08
CIE LCh	44, 55.824, 43.015
Yxy	13.7876, 0.5367, 0.3636
Android (android.graphics.Color)	4289677098 (0xFFAF472A)
YUV	98.7900, -27.9975, 66.8362
Hunter-Lab	37.1317, 32.8484, 19.9577

# Details

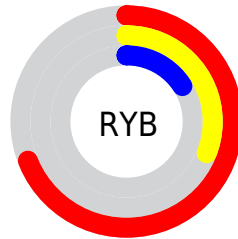
The XYZ color **20.3504, 13.7876, 3.7792** is a dark color, and the websafe version is hex **993300**. A complement of this color would be **18.9708, 24.1435, 44.2176**, and the grayscale version is **11.8630, 12.4808, 13.5916**.

A 20% lighter version of the original color is **43.4782, 32.7201, 13.4752**, and **7.4029, 4.1139, 0.4039** is the 20% darker color. If you saturate the color by 10%, you get **19.3284, 12.1403, 2.2163**, and if you desaturate by 10%, it is **21.7057, 15.8832, 6.1279**.

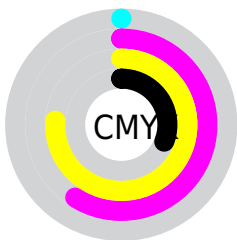
# Distribution



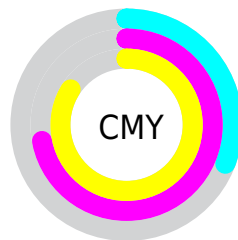
- Red (69%)
- Green (28%)
- Blue (16%)



- Red (69%)
- Yellow (31%)
- Blue (16%)



- Cyan (0%)
- Magenta (59%)
- Yellow (76%)
- Black (31%)




- Cyan (31%)
- Magenta (72%)
- Yellow (84%)


# Brightness & Saturation Gradients

These gradients show how the XYZ color 20.3504, 13.7876, 3.7792 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 20.3504, 13.7876, 3.7792 by changing the saturation by 10% instead.





 20.3504, 13.7876,  
3.7792


 20.3504, 13.7876,  
3.7792


246.6033,  
215.9054, 145.7386


 12.7597, 7.9731,  
1.5050


 43.5034, 32.7117,  
13.4972


 7.3392, 4.0777,  
0.2217


 59.7964, 46.5900,  
21.7782


 3.7233, 1.7171,  
0.0000

 79.7209, 63.9251,  
32.8984

 1.5468, 0.4347,  
0.0000

 103.6422, 85.1014,  
47.2766

 0.3574, 0.0000,  
0.0000

 131.9258,  
110.5031, 65.3311

 0.0000, 0.0000,  
0.0000

 164.9370,

140.5148, 87.4806

203.0410,  
175.5208, 114.1436

■ 20.3504, 13.7876,  
3.7792

■ 20.3504, 13.7876,  
3.7792

■ 19.3284, 12.1403,  
2.2163

■ 21.7057, 15.8832,  
6.1279

■ 18.6048, 10.9039,  
1.3251

■ 23.4214, 18.4551,  
9.3492

■ 18.3775, 10.5107,  
1.0602

■ 25.5225, 21.5320,  
13.5189

■ 28.0315, 25.1392,  
18.7045

■ 30.9691, 29.3004,  
24.9673

■ 34.3545, 34.0381,  
32.3635

■ 38.2057, 39.3732,  
40.9458

■ 42.5399, 45.3257,  
50.7632

■ 47.3731, 51.9145,  
61.8620

# Harmonies

## Analogous

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



23.2483, 13.7876, 10.1721



20.3504, 13.7876, 3.7792



15.7466, 13.7876, 1.6945

# Triad

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



20.3504, 13.7876, 3.7792



6.5427, 13.7876, 8.9671



15.1128, 13.7876, 53.3903

# Complementary

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



20.3504, 13.7876, 3.7792



18.9708, 24.1435, 44.2176

# 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.



10.7761, 13.7876, 52.3803



20.3504, 13.7876, 3.7792



6.4473, 13.7876, 21.1863

# Square

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



20.3504, 13.7876, 3.7792



8.1211, 13.7876, 3.3237



7.8223, 13.7876, 38.4823



19.7974, 13.7876, 40.7580



# Rectangle

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



20.3504, 13.7876, 3.7792



12.6628, 13.7876, 1.4656



7.8223, 13.7876, 38.4823



13.5567, 13.7876, 54.7801

# Sweetspot

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



20.3507, 13.7884, 3.7794



56.9637, 54.5830, 47.9629



23.7097, 12.8510, 28.4998



12.2089, 11.4962, 9.6824



84.5950, 89.0005, 96.9216



16.2198, 17.0645, 18.5832



# Same Dimension

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



20.3507, 13.7884, 3.7794



33.7100, 20.2091, 2.8059



27.0878, 27.2626, 6.0251



8.1416, 8.2880, 8.3840



13.1993, 7.6041, 0.7720



0.4065, 0.2902, 0.0346



# Inverse Universe

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



18.9708, 24.1435, 44.2176



30.8650, 39.1156, 78.5602



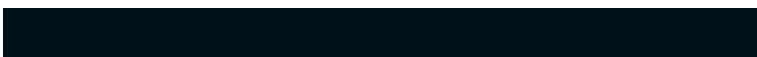
11.5383, 9.2786, 41.7401



8.0859, 8.7712, 10.2195



11.9773, 15.0886, 31.3256

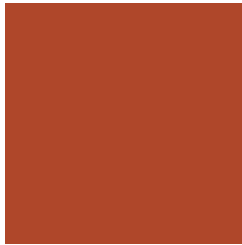


0.3696, 0.4925, 0.8836



# Previews

## White Background



This preview shows how the XYZ color 20.3504, 13.7876, 3.7792 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

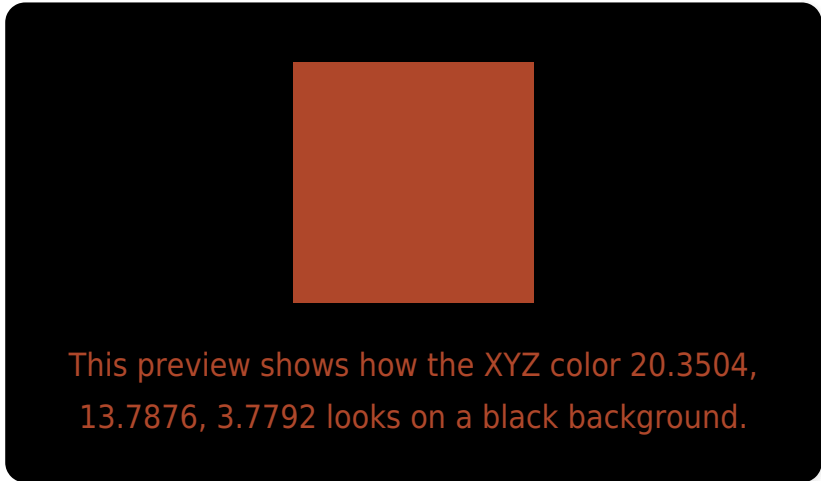
Any Text WCAG AA ✓ Pass

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 20.3504, 13.7876, 3.7792**

## **Background**



This preview shows how black text looks on a background with the XYZ color 20.3504, 13.7876, 3.7792.



This preview shows how white text looks on a background with the XYZ color 20.3504, 13.7876,



# 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

20.3504, 13.7876, 3.7792

### Protanopia

12.8739, 14.0641, 5.2849

### Deuteranopia

14.1253, 13.8703, 3.5229



## Tritanopia

21.0813, 13.7123, 7.6665

# Trichromacy



## Original Color

20.3504, 13.7876, 3.7792

## Protanomaly

14.7644, 13.3605, 4.5970

## Deuteranomaly

15.9549, 13.4877, 3.5962

## Tritanomaly

20.8139, 13.7013, 5.9625

# Monochromacy



## Original Color

20.3504, 13.7876, 3.7792

## Achromatopsia

11.8596, 12.4772, 13.5877

## Achromatomaly

13.6999, 12.2068, 8.8418

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 20.3504, 13.7876, 3.7792 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(175, 71, 42)` looks like.

```
.text, #text, p{  
    color:rgb(175, 71, 42)  
}
```

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(175, 71, 42) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(175, 71, 42) }
```

## Border

The CSS property to change the border of an element to XYZ 20.3504, 13.7876, 3.7792 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(175, 71, 42) }
```



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

```
.border{ border-color:rgb(175, 71, 42) }
```

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

Here you see how a box with a 4 pixel rgb(175, 71, 42) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(175, 71, 42); -webkit-box-  
shadow:4px 4px 4px 4px rgb(175, 71, 42);  
box-shadow:4px 4px 4px 4px rgb(175, 71,  
42) }
```

# Background

The CSS property to change the background color of an element to XYZ 20.3504, 13.7876, 3.7792 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(175, 71, 42) }
```

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

```
.background{ background-color: rgb(175, 71,  
42) }
```

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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