

# Converting Colors

XYZ(20.7001, 19.7215, 17.7315)

Have a look what the booklet for  
XYZ(20.7001, 19.7215, 17.7315)  
contains.

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# Color

**XYZ(20.7321, 19.7996,  
17.7679)**

# Conversions

## Conversions Part 1

<b>Format</b>	<b>Color</b>
Hex	90756F
RGB	144, 117, 111
RGB Percent	56%, 46%, 44%
CMY	0.4353, 0.5412, 0.5647
CMYK	0.00, 0.19, 0.23, 0.44
HSL	11°, 13%, 50%
HSV	11°, 23%, 56%
XYZ	20.7321, 19.7996, 17.7679
YIQ	124.3890, 18.0180, 3.8580

# Conversions

## Conversions Part 2

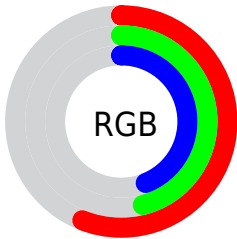
<b>Format</b>	<b>Color</b>
<b>R<sub>YB</sub></b>	144, 118, 111
Decimal	9467247
CIE Lab	51.61, 9.56, 7.28
CIE LCh	52, 12.013, 37.281
Yxy	19.7996, 0.3556, 0.3396
Android (android.graphics.Color)	4287657327 (0xFF90756F)
YUV	124.3890, -6.6008, 17.1988
Hunter-Lab	44.4967, 5.2981, 7.4728

# Details

The XYZ color **20.7321, 19.7996, 17.7679** is a dark color, and the websafe version is hex **996666**. A complement of this color would be **20.6777, 23.5692, 29.8450**, and the grayscale version is **19.3056, 20.3110, 22.1187**.

A 20% lighter version of the original color is **44.0875, 43.0260, 40.6315**, and **7.5395, 6.9423, 5.6452** is the 20% darker color. If you saturate the color by 10%, you get **18.7151, 16.9337, 13.4941**, and if you desaturate by 10%, it is **23.0508, 23.0640, 22.7734**.

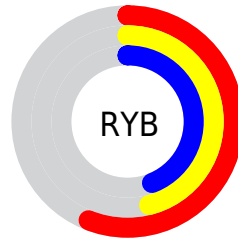
# Distribution



Red (56%)

Green (46%)

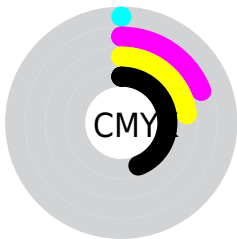
Blue (44%)



Red (56%)

Yellow (46%)

Blue (44%)

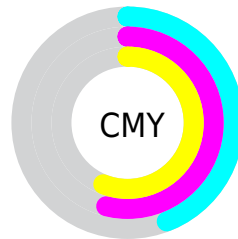


Cyan (0%)

Magenta (19%)

Yellow (23%)

Black (44%)



Cyan (44%)

Magenta (54%)

Yellow (56%)

# Brightness & Saturation Gradients

These gradients show how the XYZ color 20.7321, 19.7996, 17.7679 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 20.7321, 19.7996, 17.7679 by changing the saturation by 10% instead.



■ 20.7321, 19.7996,  
17.7679

■ 20.7321, 19.7996,  
17.7679

248.6101,  
250.8282, 251.7516

■ 13.0397, 12.2495,  
10.6158

■ 44.1359, 43.0809,  
40.4500

■ 7.5331, 6.9138,  
5.6982

■ 60.5780, 59.5809,  
56.8171

■ 3.8469, 3.4083,  
2.5966

■ 80.6673, 79.8330,  
77.0929

■ 1.6159, 1.3484,  
0.8907

■ 104.7692,  
104.2215, 101.6959

■ 0.4027, 0.1782,  
0.0000

133.2491,  
133.1309, 131.0448

■ 0.0000, 0.0000,  
0.0000

166.4723,

166.9455, 165.5580

204.8041,  
206.0498, 205.6541

■ 20.7321, 19.7996,  
17.7679

■ 20.7321, 19.7996,  
17.7679

■ 18.7151, 16.9337,  
13.4941

■ 23.0508, 23.0640,  
22.7734

■ 16.9856, 14.4483,  
9.9163

■ 25.6814, 26.7385,  
28.5415

■ 15.5308, 12.3281,  
6.9980

■ 28.6354, 30.8377,  
35.1026

■ 14.3363, 10.5557,  
4.6985

■ 31.9235, 35.3747,  
42.4854

■ 13.3860, 9.1122,  
2.9728

■ 35.5558, 40.3620,  
50.7168

■ 12.6624, 7.9770,  
1.7696

■ 39.5419, 45.8114,  
59.8228

■ 12.1451, 7.1269,  
1.0284

■ 43.8911, 51.7346,  
69.8282

■ 11.8754, 6.6768,  
0.6629

■ 48.6123, 58.1427,  
80.7566

■ 53.7142, 65.0463,  
92.6310

# Harmonies

## Analogous

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



21.2231, 19.7996, 20.7247



20.7321, 19.7996, 17.7679



19.7321, 19.7996, 15.9763

# Triad

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



20.7321, 19.7996, 17.7679



16.7528, 19.7996, 19.0853



19.1154, 19.7996, 28.8688

# Complementary

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



20.7321, 19.7996, 17.7679



20.6777, 23.5692, 29.8450

# 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.



17.9343, 19.7996, 28.3094



20.7321, 19.7996, 17.7679



16.6035, 19.7996, 22.4142

# Square

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



20.7321, 19.7996, 17.7679



17.4441, 19.7996, 16.6780



17.0272, 19.7996, 25.8529



20.2641, 19.7996, 27.3085



# Rectangle

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



20.7321, 19.7996, 17.7679



18.9295, 19.7996, 15.5625



17.0272, 19.7996, 25.8529



18.7087, 19.7996, 28.9250

# Sweetspot

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



20.7326, 19.8005, 17.7683



43.2661, 44.3307, 45.8721



21.8099, 19.1478, 26.7814



9.8684, 10.0913, 10.4022



69.3244, 72.9347, 79.4259



10.7221, 11.2805, 12.2844



# Same Dimension

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



20.7326, 19.8005, 17.7683



34.8527, 32.4931, 27.6863



22.7585, 23.8521, 18.4436



5.4833, 5.5730, 5.6761



10.3547, 5.8410, 0.5817



0.1109, 0.0796, 0.0095



# Inverse Universe

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



20.6777, 23.5692, 29.8450



34.7378, 40.2235, 52.4711



18.5493, 19.3124, 29.1356



5.4780, 5.9518, 6.8889



10.0207, 13.0274, 24.9635



0.1098, 0.1526, 0.2433



# Previews

## White Background



This preview shows how the XYZ color 20.7321, 19.7996, 17.7679 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

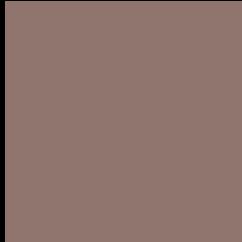
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the XYZ color 20.7321, 19.7996, 17.7679 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 20.7321, 19.7996, 17.7679**

## **Background**



This preview shows how black text looks on a background with the XYZ color 20.7321, 19.7996, 17.7679.



This preview shows how white text looks on a background with the XYZ color 20.7321, 19.7996,

17.7679.

# 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

20.7321, 19.7996, 17.7679

### Protanopia

19.0223, 19.9700, 18.7716

### Deuteranopia

20.2813, 19.9168, 17.8143



## Tritanopia

21.6229, 19.8277, 21.7563

# Trichromacy



## Original Color

20.7321, 19.7996, 17.7679

## Protanomaly

19.6495, 19.9353, 18.4350

## Deuteranomaly

20.3322, 19.7673, 17.7828

## Tritanomaly

21.2522, 19.8424, 20.1626

# Monochromacy



## Original Color

20.7321, 19.7996, 17.7679

## Achromatopsia

19.1579, 20.1556, 21.9495

## Achromatomaly

19.5272, 19.8319, 20.2515

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 20.7321, 19.7996, 17.7679 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(144, 117, 111)` looks like.

```
.text, #text, p{  
    color:rgb(144, 117, 111)  
}
```

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(144, 117, 111) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(144, 117, 111) }
```

## Border

The CSS property to change the border of an element to XYZ 20.7321, 19.7996, 17.7679 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(144, 117, 111) }
```



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

```
.border{ border-color:rgb(144, 117, 111) }
```

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

Here you see how a box with a 4 pixel `rgb(144, 117, 111)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(144, 117, 111); -webkit-box-  
shadow:4px 4px 4px 4px rgb(144, 117, 111);  
box-shadow:4px 4px 4px 4px rgb(144, 117,  
111) }
```

# Background

The CSS property to change the background color of an element to XYZ 20.7321, 19.7996, 17.7679 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(144, 117, 111) }
```

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

```
.background{ background-color: rgb(144,  
117, 111) }
```

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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