

# Converting Colors

XYZ(18.9814, 20.3138, 23.1705)

Have a look what the booklet for  
XYZ(18.9814, 20.3138, 23.1705)  
contains.

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# Color

**XYZ(18.9756, 20.2188,  
23.3246)**

# Conversions

## Conversions Part 1

Format	Color
Hex	787D80
RGB	120, 125, 128
RGB Percent	47%, 49%, 50%
CMY	0.5294, 0.5098, 0.4980
CMYK	0.06, 0.02, 0.00, 0.50
HSL	202°, 3%, 49%
HSV	202°, 6%, 50%
XYZ	18.9756, 20.2188, 23.3246
YIQ	123.8470, -3.9430, -0.1270

# Conversions

## Conversions Part 2

<b>Format</b>	<b>Color</b>
<b>R<sub>YB</sub></b>	120, 123, 128
Decimal	7896448
CIE <sub>Lab</sub>	52.08, -1.24, -2.28
CIE <sub>LCh</sub>	52, 2.596, 241.575
Yxy	20.2188, 0.3035, 0.3234
Android (android.graphics.Color)	4286086528 (0xFF787D80)
YUV	123.8470, 2.0474, -3.3738
Hunter-Lab	44.9653, -3.3614, 0.7206

# Details

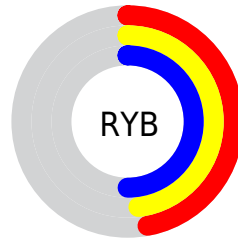
The XYZ color **18.9756, 20.2188, 23.3246** is a dark color, and the websafe version is hex **666666**. A complement of this color would be **19.3753, 20.1110, 20.6302**, and the grayscale version is **19.1020, 20.0968, 21.8855**.

A 20% lighter version of the original color is **41.2741, 43.9476, 50.0234**, and **6.6682, 7.1111, 8.4183** is the 20% darker color. If you saturate the color by 10%, you get **16.7252, 18.1794, 23.0499**, and if you desaturate by 10%, it is **21.4938, 22.4409, 23.6211**.

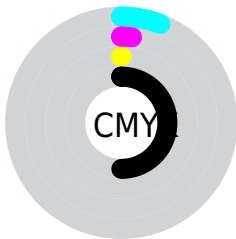
# Distribution



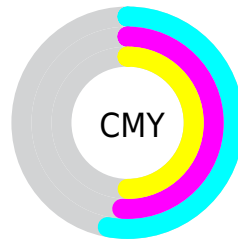
- Red (47%)
- Green (49%)
- Blue (50%)



- Red (47%)
- Yellow (48%)
- Blue (50%)



- Cyan (6%)
- Magenta (2%)
- Yellow (0%)
- Black (50%)



- Cyan (53%)
- Magenta (51%)
- Yellow (50%)

# Brightness & Saturation Gradients

These gradients show how the XYZ color 18.9756, 20.2188, 23.3246 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 18.9756, 20.2188, 23.3246 by changing the saturation by 10% instead.



■ 18.9756, 20.2188,  
23.3246

■ 18.9756, 20.2188,  
23.3246

239.2547,  
253.0972, 282.5636

■ 11.7566, 12.5542,  
14.6258

■ 41.2101, 43.7837,  
49.8557

■ 6.6491, 7.1223,  
8.4135

■ 56.9562, 60.4528,  
68.5251

■ 3.2880, 3.5387,  
4.2691

■ 76.2754, 80.8922,  
91.3551

■ 1.3078, 1.4190,  
1.7741

99.5330, 105.4862,  
118.7643

■ 0.1891, 0.2307,  
0.4108

127.0943,  
134.6194, 151.1713

■ 0.0000, 0.0000,  
0.0000

159.3249,

168.6760, 188.9944

196.5899,  
208.0404, 232.6523

■ 18.9756, 20.2188,  
23.3246

■ 18.9756, 20.2188,  
23.3246

■ 16.7252, 18.1794,  
23.0499

■ 21.4938, 22.4409,  
23.6211

■ 14.7312, 16.3146,  
22.7950

■ 24.2874, 24.8486,  
23.9386

■ 12.9837, 14.6191,  
22.5599

■ 27.3656, 27.4477,  
24.2780

■ 11.4716, 13.0867,  
22.3438

■ 30.7368, 30.2431,  
24.6399

■ 10.1828, 11.7105,  
22.1461

■ 34.4091, 33.2396,  
25.0248

■ 9.1043, 10.4829,  
21.9660

■ 38.3902, 36.4417,  
25.4330

■ 8.2211, 9.3959,  
21.8027

■ 42.6874, 39.8538,  
25.8651

■ 7.5167, 8.4399,  
21.6553

■ 47.3079, 43.4799,  
26.3215

■ 6.9611, 7.5989,  
21.5223

■ 52.2586, 47.3243,  
26.8026

# Harmonies

## Analogous

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



18.7861, 20.2188, 22.7886



18.9756, 20.2188, 23.3246



19.2314, 20.2188, 23.5075

# Triad

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



18.9756, 20.2188, 23.3246



19.7317, 20.2188, 21.9747



18.9515, 20.2188, 20.7937

# Complementary

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



18.9756, 20.2188, 23.3246



19.3753, 20.1110, 20.6302

# 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.



19.2033, 20.2188, 20.5867



18.9756, 20.2188, 23.3246



19.6552, 20.2188, 21.2588

# Square

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



18.9756, 20.2188, 23.3246



19.6694, 20.2188, 22.7175



19.4612, 20.2188, 20.7550



18.7723, 20.2188, 21.3268



# Rectangle

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



18.9756, 20.2188, 23.3246



19.4055, 20.2188, 23.4013



19.4612, 20.2188, 20.7550



19.0304, 20.2188, 20.6842

# Sweetspot

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



18.9762, 20.2197, 23.3250



35.2153, 37.2040, 41.2813



19.0362, 20.8601, 21.7404



8.2597, 8.7236, 9.6668



62.3462, 65.5931, 71.4309



8.4577, 8.8982, 9.6901



# Same Dimension

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



18.9762, 20.2197, 23.3250



32.6074, 34.8800, 40.9702



18.4878, 19.2428, 23.1622



4.3152, 4.6244, 5.4784



6.7117, 7.2419, 21.2940



0.0000, 0.0000, 0.0000



# Inverse Universe

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



19.3207, 19.5031, 22.1492



33.3952, 33.2614, 38.2770



19.8733, 21.1071, 20.7962



4.4319, 4.3859, 5.0790



10.2647, 5.1256, 7.9838



0.0000, 0.0000, 0.0000



# Previews

## White Background



This preview shows how the XYZ color 18.9756, 20.2188, 23.3246 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 18.9756, 20.2188, 23.3246 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

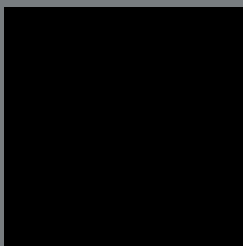
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA × Fail

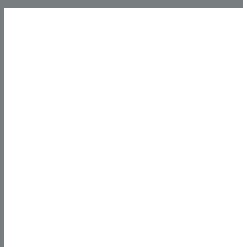
If you want to check with other color combinations, try the [Color Contrast Checker](#).

**XYZ 18.9756, 20.2188, 23.3246**

## **Background**



This preview shows how black text looks on a background with the XYZ color 18.9756, 20.2188, 23.3246.



This preview shows how white text looks on a background with the XYZ color 18.9756, 20.2188,



# 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

18.9756, 20.2188, 23.3246

### Protanopia

19.3712, 20.0582, 22.9293

### Deuteranopia

20.5104, 20.0863, 23.5649



## Tritanopia

19.3959, 20.2015, 25.4313

# Trichromacy



## Original Color

18.9756, 20.2188, 23.3246

## Protanomaly

19.2068, 20.1586, 22.9574

## Deuteranomaly

19.9752, 20.1712, 23.6095

## Tritanomaly

19.2577, 20.1462, 24.7034

# Monochromacy



## Original Color

18.9756, 20.2188, 23.3246

## Achromatopsia

19.1579, 20.1556, 21.9495

## Achromatomaly

19.0777, 20.1069, 22.2776

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 18.9756, 20.2188, 23.3246 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(120, 125, 128)` looks like.

```
.text, #text, p{  
    color:rgb(120, 125, 128)  
}
```

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(120, 125, 128) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(120, 125, 128) }
```

## Border

The CSS property to change the border of an element to XYZ 18.9756, 20.2188, 23.3246 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".

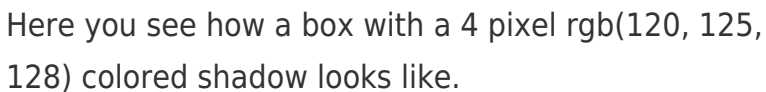
```
.border, #border, table{ border:4px solid rgb(120, 125, 128) }
```



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

```
.border{ border-color:rgb(120, 125, 128) }
```

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



Here you see how a box with a 4 pixel `rgb(120, 125, 128)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px 4px rgb(120, 125, 128); -webkit-box-shadow:4px 4px 4px 4px rgb(120, 125, 128); box-shadow:4px 4px 4px 4px rgb(120, 125, 128) }
```

# Background

The CSS property to change the background color of an element to XYZ 18.9756, 20.2188, 23.3246 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(120, 125, 128) }
```

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

```
.background{ background-color: rgb(120,  
125, 128) }
```

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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