

# Converting Colors

XYZ(19.8781, 21.3201, 23.7487)

Have a look what the booklet for  
XYZ(19.8781, 21.3201, 23.7487)  
contains.

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# Color

**XYZ(19.8500, 21.2343,  
23.8213)**

# Conversions

## Conversions Part 1

<b>Format</b>	<b>Color</b>
Hex	7B8081
RGB	123, 128, 129
RGB Percent	48%, 50%, 51%
CMY	0.5176, 0.4980, 0.4941
CMYK	0.05, 0.01, 0.00, 0.49
HSL	190°, 2%, 49%
HSV	190°, 5%, 51%
XYZ	19.8500, 21.2343, 23.8213
YIQ	126.6190, -3.3010, -0.7490

# Conversions

## Conversions Part 2

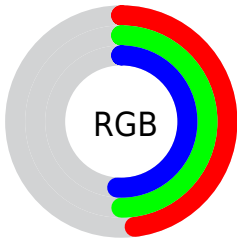
<b>Format</b>	<b>Color</b>
<b>R<sub>YB</sub></b>	123, 126, 129
Decimal	8093825
CIE <sub>Lab</sub>	53.20, -1.65, -1.19
CIE <sub>LCh</sub>	53, 2.034, 215.920
Y <sub>xy</sub>	21.2343, 0.3058, 0.3272
Android (android.graphics.Color)	4286283905 (0xFF7B8081)
YUV	126.6190, 1.1738, -3.1739
Hunter-Lab	46.0807, -3.7495, 1.6067

# Details

The XYZ color **19.8500, 21.2343, 23.8213** is a dark color, and the websafe version is hex **666666**. A complement of this color would be **19.8361, 20.5122, 21.6530**, and the grayscale version is **20.0397, 21.0833, 22.9597**.

A 20% lighter version of the original color is **42.6466, 45.5391, 50.7982**, and **7.0680, 7.6270, 8.6891** is the 20% darker color. If you saturate the color by 10%, you get **17.8482, 19.7919, 23.6487**, and if you desaturate by 10%, it is **22.1022, 22.8157, 24.0082**.

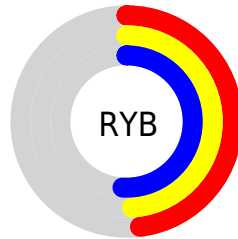
# Distribution



Red (48%)

Green (50%)

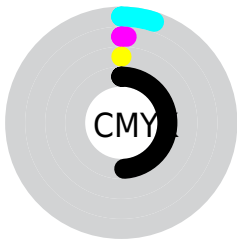
Blue (51%)



Red (48%)

Yellow (49%)

Blue (51%)

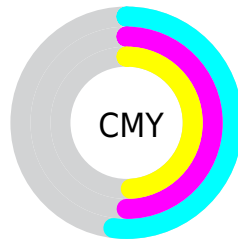


Cyan (5%)

Magenta (1%)

Yellow (0%)

Black (49%)



Cyan (52%)

Magenta (50%)

Yellow (49%)

# Brightness & Saturation Gradients

These gradients show how the XYZ color 19.8500, 21.2343, 23.8213 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 19.8500, 21.2343, 23.8213 by changing the saturation by 10% instead.



■ 19.8500, 21.2343,  
23.8213

■ 19.8500, 21.2343,  
23.8213

243.9510,  
258.5211, 285.1732

■ 12.3937, 13.2954,  
14.9901

■ 42.6714, 45.4771,  
50.6786

■ 7.0865, 7.6323,  
8.6659

■ 58.7672, 62.5499,  
69.5418

■ 3.5631, 3.8606,  
4.4301

■ 78.4736, 83.4360,  
92.5861

■ 1.4580, 1.5959,  
1.8641

102.1559,  
108.5198, 120.2301

■ 0.2970, 0.3548,  
0.4698

130.1794,  
138.1859, 152.8923

■ 0.0000, 0.0000,  
0.0000

162.9095,

172.8185, 190.9911

200.7116,  
212.8021, 234.9453

■ 19.8500, 21.2343,  
23.8213

■ 19.8500, 21.2343,  
23.8213

■ 17.8482, 19.7919,  
23.6487

■ 22.1022, 22.8157,  
24.0082

■ 16.0854, 18.4809,  
23.4886

■ 24.6118, 24.5381,  
24.2083

■ 14.5522, 17.2969,  
23.3409

■ 27.3880, 26.4068,  
24.4227

■ 13.2378, 16.2343,  
23.2050

■ 30.4389, 28.4261,  
24.6517

■ 12.1304, 15.2870,  
23.0805

■ 33.7723, 30.5999,  
24.8956

■ 11.2172, 14.4483,  
22.9668

■ 37.3956, 32.9323,  
25.1548

■ 10.4839, 13.7109,  
22.8631

■ 41.3159, 35.4269,  
25.4297

■ 9.9142, 13.0661,  
22.7687

■ 45.5403, 38.0874,  
25.7206

■ 9.4853, 12.5023,  
22.6825

■ 50.0753, 40.9172,  
26.0277

# Harmonies

## Analogous

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



19.7746, 21.2343, 23.2427



19.8500, 21.2343, 23.8213



20.0146, 21.2343, 24.2171

# Triad

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



19.8500, 21.2343, 23.8213



20.5619, 21.2343, 23.6064



20.1400, 21.2343, 21.9641

# Complementary

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



19.8500, 21.2343, 23.8213



19.8361, 20.5122, 21.6530

# 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.



20.3515, 21.2343, 22.0576



19.8500, 21.2343, 23.8213



20.5961, 21.2343, 22.9988

# Square

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



19.8500, 21.2343, 23.8213



20.4258, 21.2343, 24.0915



20.5188, 21.2343, 22.4337



19.9413, 21.2343, 22.1760



# Rectangle

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



19.8500, 21.2343, 23.8213



20.1532, 21.2343, 24.3203



20.5188, 21.2343, 22.4337



20.2120, 21.2343, 21.9609

# Sweetspot

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



19.8506, 21.2352, 23.8218



36.9578, 39.0249, 42.7772



19.6507, 21.3645, 22.1240



8.3718, 8.8377, 9.6830



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.



19.8506, 21.2352, 23.8218



34.9855, 37.6267, 42.6112



19.4774, 20.4888, 23.6974



4.5170, 4.8618, 5.5136



9.0483, 11.9151, 22.0729



0.0000, 0.0000, 0.0000



# Inverse Universe

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



20.0330, 20.3919, 23.3034



35.4138, 35.6565, 41.3916



20.2052, 21.2504, 21.7760



4.5743, 4.5982, 5.3502



11.4441, 5.5973, 14.1944



0.0000, 0.0000, 0.0000



# Previews

## White Background



This preview shows how the XYZ color 19.8500, 21.2343, 23.8213 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

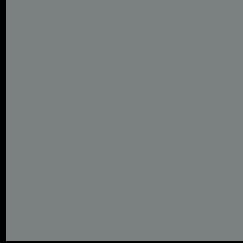
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the XYZ color 19.8500, 21.2343, 23.8213 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

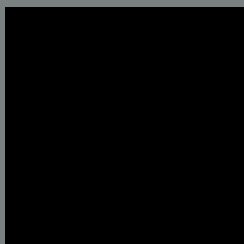
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA × Fail

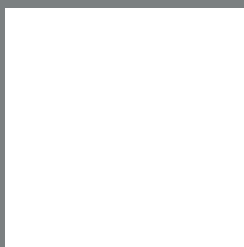
If you want to check with other color combinations, try the [Color Contrast Checker](#).

**XYZ 19.8500, 21.2343, 23.8213**

## **Background**



This preview shows how black text looks on a background with the XYZ color 19.8500, 21.2343, 23.8213.



This preview shows how white text looks on a background with the XYZ color 19.8500, 21.2343,



# 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

19.8500, 21.2343, 23.8213

### Protanopia

20.4104, 21.1473, 23.4282

### Deuteranopia

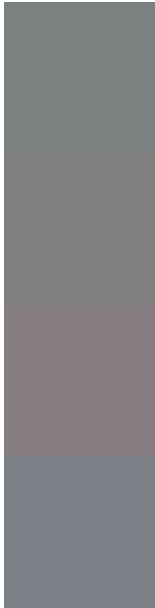
21.5935, 21.1809, 24.0693



## Tritanopia

20.4169, 21.2700, 26.6963

# Trichromacy



## Original Color

19.8500, 21.2343, 23.8213

## Protanomaly

20.2381, 21.2493, 23.4569

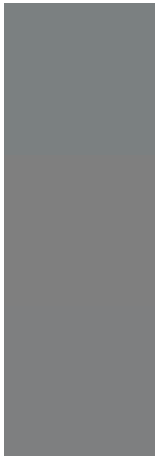
## Deuteranomaly

21.0357, 21.2655, 24.1150

## Tritanomaly

20.2046, 21.1851, 25.5785

# Monochromacy



## Original Color

19.8500, 21.2343, 23.8213

## Achromatopsia

20.1725, 21.2231, 23.1119

## Achromatomaly

20.0898, 21.1729, 23.4500

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 19.8500, 21.2343, 23.8213 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(123, 128, 129)` looks like.

```
.text, #text, p{  
    color:rgb(123, 128, 129)  
}
```

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(123, 128, 129) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(123, 128, 129) }
```

## Border

The CSS property to change the border of an element to XYZ 19.8500, 21.2343, 23.8213 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(123, 128, 129) }
```



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

```
.border{ border-color:rgb(123, 128, 129) }
```

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

Here you see how a box with a 4 pixel `rgb(123, 128, 129)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(123, 128, 129); -webkit-box-  
shadow:4px 4px 4px 4px rgb(123, 128, 129);  
box-shadow:4px 4px 4px 4px rgb(123, 128,  
129) }
```

# Background

The CSS property to change the background color of an element to XYZ 19.8500, 21.2343, 23.8213 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(123, 128, 129) }
```

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

```
.background{ background-color: rgb(123,  
128, 129) }
```

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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