

Converting Colors

XYZ(20.3167, 21.4096, 23.3287)

Have a look what the booklet for
XYZ(20.3167, 21.4096, 23.3287)
contains.

XYZ(20.3678, 21.5089, 23.5002)	3
<i>Conversions</i>	4
<i>Details</i>	6
<i>Harmonies</i>	12
<i>Previews</i>	23
<i>Color Blindness Simulation</i>	27
<i>CSS Examples</i>	30

Color

**XYZ(20.3678, 21.5089,
23.5002)**

Conversions

Conversions Part 1

Format	Color
Hex	7F8080
RGB	127, 128, 128
RGB Percent	50%, 50%, 50%
CMY	0.5020, 0.4980, 0.4980
CMYK	0.01, 0.00, 0.00, 0.50
HSL	180°, 0%, 50%
HSV	180°, 1%, 50%
XYZ	20.3678, 21.5089, 23.5002
YIQ	127.7010, -0.5960, -0.2120

Conversions

Conversions Part 2

Format	Color
RYB	127, 128, 128
Decimal	8355968
CIELab	53.50, -0.37, -0.14
CIELCh	54, 0.395, 200.348
Yxy	21.5089, 0.3115, 0.3290
Android (android.graphics.Color)	4286546048 (0xFF7F8080)
YUV	127.7010, 0.1474, -0.6148
Hunter-Lab	46.3777, -2.7687, 2.4213

Details

The XYZ color **20.3678, 21.5089, 23.5002** is a dark color, and the websafe version is hex **999999**. A complement of this color would be **20.3230, 21.3007, 23.1200**, and the grayscale version is **20.4144, 21.4776, 23.3891**.

A 20% lighter version of the original color is **43.6868, 46.0872, 50.3092**, and **7.3492, 7.7762, 8.5107** is the 20% darker color. If you saturate the color by 10%, you get **18.5793, 20.5878, 23.4060**, and if you desaturate by 10%, it is **22.3997, 22.5568, 23.6067**.

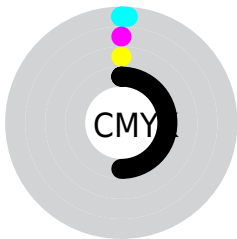
Distribution



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



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



- Cyan (1%)
- Magenta (0%)
- Yellow (0%)
- Black (50%)



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

Brightness & Saturation Gradients

These gradients show how the XYZ color 20.3678, 21.5089, 23.5002 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 20.3678, 21.5089, 23.5002 by changing the saturation by 10% instead.

■ 20.3678, 21.5089,
23.5002

■ 20.3678, 21.5089,
23.5002

246.6951,
259.9708, 283.4885

■ 12.7725, 13.4965,
14.7545

■ 43.5322, 45.9330,
50.1469

■ 7.3480, 7.7713,
8.5026

■ 59.8321, 63.1134,
68.8850

■ 3.7289, 3.9490,
4.3258

■ 79.7641, 84.1187,
91.7911

■ 1.5499, 1.6451,
1.8057

103.6937,
109.3331, 119.2835

■ 0.3594, 0.3877,
0.4317

131.9863,
139.1412, 151.7810

■ 0.0000, 0.0000,
0.0000

165.0071,

173.9272, 189.7019

203.1216,
214.0756, 233.4649

■ 20.3678, 21.5089,
23.5002

■ 20.3678, 21.5089,
23.5002

■ 18.5793, 20.5878,
23.4060

■ 22.3997, 22.5568,
23.6067

■ 17.0235, 19.7859,
23.3223

■ 24.6818, 23.7330,
23.7244

■ 15.6912, 19.0993,
23.2490

■ 27.2229, 25.0427,
23.8543

■ 14.5721, 18.5227,
23.1857

■ 30.0308, 26.4900,
23.9966

■ 13.6553, 18.0503,
23.1319

■ 33.1128, 28.0786,
24.1518

■ 12.9286, 17.6759,
23.0870

■ 36.4762, 29.8123,
24.3202

■ 12.3786, 17.3926,
23.0503

■ 40.1280, 31.6945,
24.5020

■ 11.9903, 17.1927,
23.0212

■ 44.0746, 33.7289,
24.6977

■ 11.7459, 17.0669,
22.9989

■ 48.3227, 35.9186,
24.9074

Harmonies

Analogous

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



20.3639, 21.5089, 23.3807



20.3678, 21.5089, 23.5002



20.3920, 21.5089, 23.5984

Triad

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



20.3678, 21.5089, 23.5002



20.5059, 21.5089, 23.5677



20.4571, 21.5089, 23.1918

Complementary

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



20.3678, 21.5089, 23.5002



20.3230, 21.3007, 23.1200

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.



20.4952, 21.5089, 23.2416



20.3678, 21.5089, 23.5002



20.5234, 21.5089, 23.4584

Square

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



20.3678, 21.5089, 23.5002



20.4717, 21.5089, 23.6375



20.5195, 21.5089, 23.3391



20.4154, 21.5089, 23.2030

Rectangle

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



20.3678, 21.5089, 23.5002



20.4164, 21.5089, 23.6384



20.5195, 21.5089, 23.3391



20.4708, 21.5089, 23.2020

Sweetspot

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



20.3684, 21.5098, 23.5007



36.1244, 38.0056, 41.3881



20.3053, 21.4849, 23.1556



8.4577, 8.8982, 9.6901



62.3462, 65.5931, 71.4309

Same Dimension

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



20.3684, 21.5098, 23.5007



35.7794, 37.8278, 41.3700



20.3055, 21.3837, 23.4805



4.7947, 5.0664, 5.5382



11.4968, 16.8453, 22.7868



0.0000, 0.0000, 0.0000

Inverse Universe

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



20.3230, 21.3007, 23.1200



35.6751, 37.3479, 40.4963



20.3856, 21.4261, 23.1400



4.7823, 5.0093, 5.4342



8.8288, 4.5512, 0.4222



0.0000, 0.0000, 0.0000

Previews

White Background



This preview shows how the XYZ color 20.3678, 21.5089, 23.5002 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 20.3678, 21.5089, 23.5002 looks on a black background.

Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

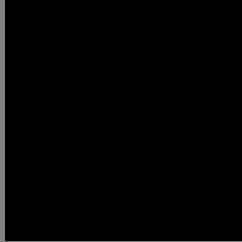
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA × Fail

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

XYZ 20.3678, 21.5089, 23.5002

Background



This preview shows how black text looks on a background with the XYZ color 20.3678, 21.5089, 23.5002.

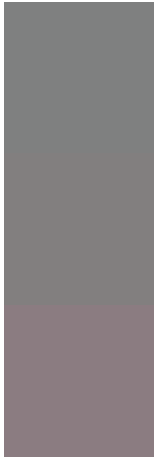


This preview shows how white text looks on a background with the XYZ color 20.3678, 21.5089,

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

20.3678, 21.5089, 23.5002

Protanopia

20.6261, 21.4569, 23.1332

Deuteranopia

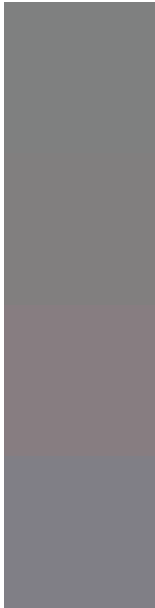
21.8176, 21.4892, 23.7668



Tritanopia

21.0068, 21.5741, 26.7239

Trichromacy



Original Color

20.3678, 21.5089, 23.5002

Protanomaly

20.4734, 21.3782, 23.1260

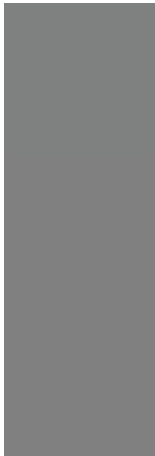
Deuteranomaly

21.2877, 21.4031, 23.7781

Tritanomaly

20.7945, 21.4892, 25.6061

Monochromacy



Original Color

20.3678, 21.5089, 23.5002

Achromatopsia

20.5175, 21.5861, 23.5072

Achromatomaly

20.5175, 21.5861, 23.5072

CSS Examples

Text

The CSS property to change the color of the text to XYZ 20.3678, 21.5089, 23.5002 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(127, 128, 128)` looks like.

```
.text, #text, p{  
    color:rgb(127, 128, 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(127, 128, 128) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(127, 128, 128) }
```

Border

The CSS property to change the border of an element to XYZ 20.3678, 21.5089, 23.5002 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(127, 128, 128) }
```

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

```
.border{ border-color:rgb(127, 128, 128) }
```

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

Here you see how a box with a 4 pixel `rgb(127, 128, 128)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(127, 128, 128); -webkit-box-  
shadow:4px 4px 4px 4px rgb(127, 128, 128);  
box-shadow:4px 4px 4px 4px rgb(127, 128,  
128) }
```


Background

The CSS property to change the background color of an element to XYZ 20.3678, 21.5089, 23.5002 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(127, 128, 128) }
```

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

```
.background{ background-color: rgb(127,  
128, 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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