

Converting Colors

XYZ(23.7815, 21.1828, 50.4169)

Have a look what the booklet for
XYZ(23.7815, 21.1828, 50.4169)
contains.

XYZ(23.8196, 21.2014, 50.4138)	3
<i>Conversions</i>	4
<i>Details</i>	6
<i>Harmonies</i>	12
<i>Previews</i>	24
<i>Color Blindness Simulation</i>	28
<i>CSS Examples</i>	31

Color

**XYZ(23.8196, 21.2014,
50.4138)**

Conversions

Conversions Part 1

Format	Color
Hex	7A78BC
RGB	122, 120, 188
RGB Percent	48%, 47%, 74%
CMY	0.5216, 0.5294, 0.2627
CMYK	0.35, 0.36, 0.00, 0.26
HSL	242°, 34%, 60%
HSV	242°, 36%, 74%
XYZ	23.8196, 21.2014, 50.4138
YIQ	128.3500, -20.6360, 21.5720

Conversions

Conversions Part 2

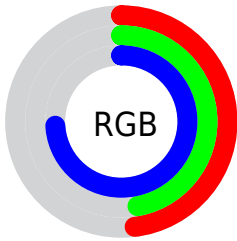
Format	Color
R _Y B	122, 120, 188
Decimal	8026300
CIE Lab	53.17, 17.09, -35.47
CIE LCh	53, 39.371, 295.730
Yxy	21.2014, 0.2496, 0.2222
Android (android.graphics.Color)	4286216380 (0xFF7A78BC)
YUV	128.3500, 29.4074, -5.5690
Hunter-Lab	46.0450, 11.7614, -32.6840

Details

The XYZ color **23.8196, 21.2014, 50.4138** is a dark color, and the websafe version is hex **666699**. A complement of this color would be **41.6235, 47.7620, 24.7953**, and the grayscale version is **20.5461, 21.6161, 23.5399**.

A 20% lighter version of the original color is **49.1385, 45.3277, 92.5455**, and **9.1462, 7.6581, 23.5503** is the 20% darker color. If you saturate the color by 10%, you get **19.4311, 15.9061, 49.6234**, and if you desaturate by 10%, it is **29.1386, 27.6362, 51.3759**.

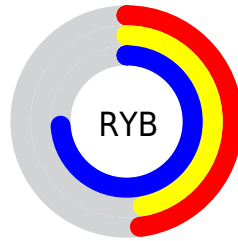
Distribution



Red (48%)

Green (47%)

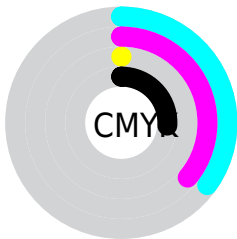
Blue (74%)



Red (48%)

Yellow (47%)

Blue (74%)

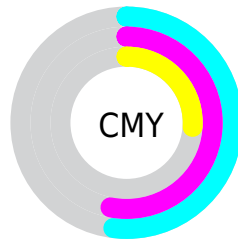


Cyan (35%)

Magenta (36%)

Yellow (0%)

Black (26%)



Cyan (52%)

Magenta (53%)

Yellow (26%)

Brightness & Saturation Gradients

These gradients show how the XYZ color 23.8196, 21.2014, 50.4138 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 23.8196, 21.2014, 50.4138 by changing the saturation by 10% instead.

■ 23.8196, 21.2014,
50.4138

■ 23.8196, 21.2014,
50.4138

264.3646,
258.3469, 405.0633

■ 15.3239, 13.2713,
35.3688

■ 49.1925, 45.4225,
92.1903

■ 9.1348, 7.6156,
23.6613

■ 66.8003, 62.4822,
119.7589

■ 4.8870, 3.8500,
14.8727

■ 88.1763, 83.3540,
152.3391

■ 2.2152, 1.5900,
8.5845

113.6856,
108.4222, 190.3494

■ 0.7507, 0.3509,
4.3781

143.6938,
138.0712, 234.2085

■ 0.0000, 0.0000,
1.8350

178.5661,

■ 0.0000, 0.0000,

172.6854, 284.3348

0.4509

218.6679,
212.6491, 341.1469

■ 0.0000, 0.0000,
0.0000

■ 23.8196, 21.2014,
50.4138

■ 23.8196, 21.2014,
50.4138

■ 19.4311, 15.9061,
49.6234

■ 29.1386, 27.6362,
51.3759

■ 15.9175, 11.6815,
48.9931

■ 35.4349, 35.2689,
52.5173

■ 13.2209, 8.4555,
48.5126

■ 42.7548, 44.1568,
53.8470

■ 11.2753, 6.1459,
48.1693

■ 51.1411, 54.3530,
55.3731

■ 10.0047, 4.6575,
47.9490

■ 60.6342, 65.9073,
57.1029

■ 9.3143, 3.8692,
47.8332

■ 71.2722, 78.8670,
59.0437

■ 9.1464, 3.6666,
47.8030

■ 83.0915, 93.2772,
61.2022

■ 86.0772, 96.4109,
61.6497

Harmonies

Analogous

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



19.5628, 21.2014, 54.2146



23.8196, 21.2014, 50.4138



27.4948, 21.2014, 38.5004

Triad

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



23.8196, 21.2014, 50.4138



24.9891, 21.2014, 8.8765



13.1926, 21.2014, 21.4240

Complementary

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



23.8196, 21.2014, 50.4138



41.6235, 47.7620, 24.7953

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.



14.2478, 21.2014, 12.4556



23.8196, 21.2014, 50.4138



20.7515, 21.2014, 6.9673

Square

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



23.8196, 21.2014, 50.4138



28.2324, 21.2014, 14.5135



16.8804, 21.2014, 8.0065



13.7812, 21.2014, 34.5011

Rectangle

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



23.8196, 21.2014, 50.4138



28.9206, 21.2014, 29.1912



16.8804, 21.2014, 8.0065



13.3623, 21.2014, 17.8954

Sweetspot

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



23.8204, 21.2022, 50.4143



70.6016, 71.6648, 96.3378



34.5655, 43.1085, 54.0763



14.8003, 14.9471, 20.6476



90.7827, 95.5105, 104.0109



18.6292, 19.5994, 21.3438

Same Dimension

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



23.8204, 21.2022, 50.4143



37.0254, 31.0081, 90.2599



29.3374, 24.0464, 50.6725



9.0418, 9.2384, 11.9788



6.2384, 2.5021, 32.5470



0.2533, 0.1026, 1.2753

Inverse Universe

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



36.3190, 27.6702, 49.8814



62.8794, 44.3904, 89.0255



34.4857, 44.0824, 24.4613



9.9175, 9.6913, 11.9546



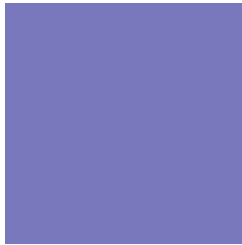
19.9072, 9.5940, 31.1347



0.7836, 0.3773, 1.2398

Previews

White Background



This preview shows how the XYZ color 23.8196, 21.2014, 50.4138 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 23.8196, 21.2014, 50.4138 looks on a black background.

Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

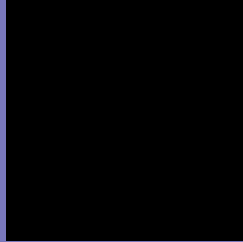
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA × Fail

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

XYZ 23.8196, 21.2014, 50.4138

Background



This preview shows how black text looks on a background with the XYZ color 23.8196, 21.2014, 50.4138.

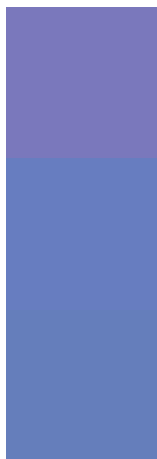


This preview shows how white text looks on a background with the XYZ color 23.8196, 21.2014,

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

23.8196, 21.2014, 50.4138

Protanopia

22.4416, 21.3566, 52.8086

Deuteranopia

21.7973, 21.2763, 49.9716



Tritanopia

19.2718, 21.2382, 27.8946

Trichromacy



Original Color

23.8196, 21.2014, 50.4138

Protanomaly

22.9173, 21.2425, 52.1826

Deuteranomaly

22.4840, 21.2544, 49.9312

Tritanomaly

20.6169, 21.0009, 34.8652

Monochromacy



Original Color

23.8196, 21.2014, 50.4138

Achromatopsia

20.5175, 21.5861, 23.5072

Achromatomaly

21.4428, 21.3049, 31.8363

CSS Examples

Text

The CSS property to change the color of the text to XYZ 23.8196, 21.2014, 50.4138 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(122, 120, 188)` looks like.

```
.text, #text, p{  
    color:rgb(122, 120, 188)  
}
```

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(122, 120, 188) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(122, 120, 188) }
```

Border

The CSS property to change the border of an element to XYZ 23.8196, 21.2014, 50.4138 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(122, 120, 188) }
```


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

```
.border{ border-color:rgb(122, 120, 188) }
```

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

Here you see how a box with a 4 pixel `rgb(122, 120, 188)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(122, 120, 188); -webkit-box-  
shadow:4px 4px 4px 4px rgb(122, 120, 188);  
box-shadow:4px 4px 4px 4px rgb(122, 120,  
188) }
```

Background

The CSS property to change the background color of an element to XYZ 23.8196, 21.2014, 50.4138 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(122, 120, 188) }
```

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

```
.background{ background-color: rgb(122,  
120, 188) }
```

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](#).

Hey! You found this booklet interesting? Support Converting Colors with the new Membership Option!

The pro membership hides all ads, plus gives you double the colors in the color bucket, and more awesome pro features!

[Learn more, Memberships starting at \\$2.50/m!](#)

**Follow me
on Twitter!**

@ConvertingColor