

Converting Colors

XYZ(20.4034, 21.8453, 46.3014)

Have a look what the booklet for
XYZ(20.4034, 21.8453, 46.3014)
contains.

XYZ(20.4200, 21.8241, 46.3162)	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(20.4200, 21.8241,
46.3162)**

Conversions

Conversions Part 1

Format	Color
Hex	5784B4
RGB	87, 132, 180
RGB Percent	34%, 52%, 71%
CMY	0.6588, 0.4823, 0.2941
CMYK	0.52, 0.27, 0.00, 0.29
HSL	211°, 38%, 52%
HSV	211°, 52%, 71%
XYZ	20.4200, 21.8241, 46.3162
YIQ	124.0170, -42.2280, 5.3880

Conversions

Conversions Part 2

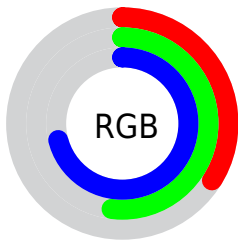
Format	Color
R _Y B	87, 117, 180
Decimal	5735604
CIE Lab	53.84, -1.57, -30.00
CIE LCh	54, 30.041, 267.002
Yxy	21.8241, 0.2306, 0.2464
Android (android.graphics.Color)	4283925684 (0xFF5784B4)
YUV	124.0170, 27.5996, -32.4639
Hunter-Lab	46.7163, -3.7299, -26.0809

Details

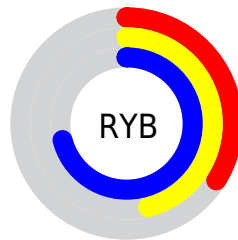
The XYZ color **20.4200, 21.8241, 46.3162** is a dark color, and the websafe version is hex **6699CC**. A complement of this color would be **29.2075, 27.7204, 12.8290**, and the grayscale version is **19.0856, 20.0796, 21.8666**.

A 20% lighter version of the original color is **43.6446, 46.5048, 86.0329**, and **7.4029, 7.9657, 21.2260** is the 20% darker color. If you saturate the color by 10%, you get **17.7401, 18.6552, 45.8462**, and if you desaturate by 10%, it is **23.6326, 25.4350, 46.8443**.

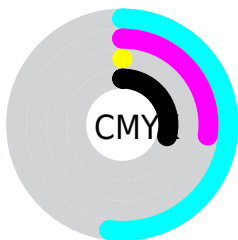
Distribution



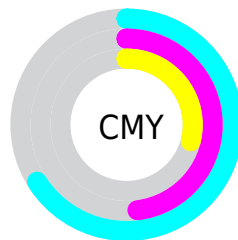
- Red (34%)
- Green (52%)
- Blue (71%)



- Red (34%)
- Yellow (46%)
- Blue (71%)



- Cyan (52%)
- Magenta (27%)
- Yellow (0%)
- Black (29%)



- Cyan (66%)
- Magenta (48%)
- Yellow (29%)

Brightness & Saturation Gradients

These gradients show how the XYZ color 20.4200, 21.8241, 46.3162 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 20.4200, 21.8241, 46.3162 by changing the saturation by 10% instead.

■ 20.4200, 21.8241,
46.3162

■ 20.4200, 21.8241,
46.3162

246.9703,
261.6263, 388.3929

■ 12.8107, 13.7277,
32.1449

■ 43.6188, 46.4551,
86.0313

■ 7.3745, 7.9315,
21.2065

■ 59.9391, 63.7585,
112.4122

■ 3.7458, 4.0512,
13.0823

■ 79.8938, 84.8997,
143.7001

■ 1.5593, 1.7022,
7.3539

■ 103.8482,
110.2631, 180.3135

■ 0.3657, 0.4251,
3.6026

132.1677,
140.2330, 222.6709

■ 0.0000, 0.0000,
1.4100

165.2176,

■ 0.0000, 0.0000,

175.1939, 271.1909

0.1495

203.3634,
215.5302, 326.2921

■ 0.0000, 0.0000,
0.0000

■ 20.4200, 21.8241,
46.3162

■ 20.4200, 21.8241,
46.3162

■ 17.7401, 18.6552,
45.8462

■ 23.6326, 25.4350,
46.8443

■ 15.5560, 15.9037,
45.4302

■ 27.4070, 29.5059,
47.4311

■ 13.8291, 13.5457,
45.0661

■ 31.7725, 34.0563,
48.0793

■ 12.5132, 11.5526,
44.7507

■ 36.7558, 39.1038,
48.7909

■ 11.6543, 10.1273,
44.5209

■ 42.3819, 44.6650,
49.5678

■ 48.6740, 50.7557,
50.4118

■ 55.6546, 57.3908,
51.3246

■ 63.3448, 64.5848,
52.3079

■ 71.7648, 72.3514,
53.3632

Harmonies

Analogous

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



17.5415, 21.8241, 42.0178



20.4200, 21.8241, 46.3162



23.6923, 21.8241, 43.3929

Triad

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



20.4200, 21.8241, 46.3162



26.7829, 21.8241, 16.5680



15.9586, 21.8241, 15.3330

Complementary

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



20.4200, 21.8241, 46.3162



29.2075, 27.7204, 12.8290

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.



18.0495, 21.8241, 11.1777



20.4200, 21.8241, 46.3162



24.3124, 21.8241, 11.7498

Square

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



20.4200, 21.8241, 46.3162



27.5833, 21.8241, 24.7053



21.0697, 21.8241, 10.0593



15.1390, 21.8241, 22.8445

Rectangle

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



20.4200, 21.8241, 46.3162



25.6246, 21.8241, 38.0727



21.0697, 21.8241, 10.0593



16.5247, 21.8241, 13.5802

Sweetspot

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



20.4208, 21.8249, 46.3167



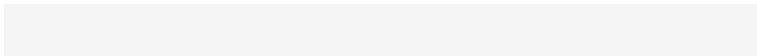
63.2678, 67.5094, 87.9907



24.5208, 36.3766, 28.1018



13.2676, 14.1795, 18.9599



86.6293, 91.1408, 99.2523



17.0014, 17.8868, 19.4787

Same Dimension

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



20.4208, 21.8249, 46.3167



31.5607, 33.0842, 83.0171



15.5778, 12.1389, 44.7024



8.3700, 8.8861, 10.7804



8.2006, 7.2017, 31.0948



0.3165, 0.3436, 0.9979

Inverse Universe

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



26.3961, 18.1865, 23.9497



44.0176, 27.2851, 35.9878



36.8644, 43.0344, 15.3813



8.6619, 8.5715, 9.7182



14.3740, 7.2671, 7.1292



0.4818, 0.2405, 0.3798

Previews

White Background



This preview shows how the XYZ color 20.4200, 21.8241, 46.3162 looks on a white background.

Color Contrast Check

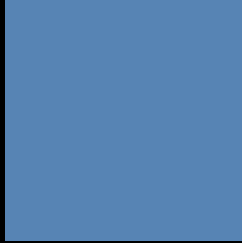
Large Text (above 18pt) WCAG AA ✓ Pass

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 20.4200, 21.8241, 46.3162 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

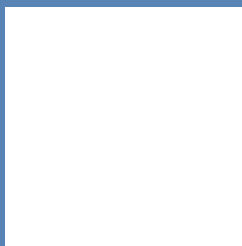
If you want to check with other color combinations, try the [Color Contrast Checker](#).

XYZ 20.4200, 21.8241, 46.3162

Background



This preview shows how black text looks on a background with the XYZ color 20.4200, 21.8241, 46.3162.

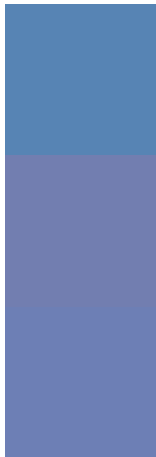


This preview shows how white text looks on a background with the XYZ color 20.4200, 21.8241,

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

20.4200, 21.8241, 46.3162

Protanopia

22.2368, 21.6337, 44.0780

Deuteranopia

22.2365, 21.7661, 46.7454



Tritanopia

17.4938, 21.8834, 31.7357

Trichromacy



Original Color

20.4200, 21.8241, 46.3162

Protanomaly

21.3639, 21.5557, 44.6296

Deuteranomaly

21.5576, 21.8034, 46.7883

Tritanomaly

18.4576, 21.8519, 36.5027

Monochromacy



Original Color

20.4200, 21.8241, 46.3162

Achromatopsia

19.1579, 20.1556, 21.9495

Achromatomaly

19.1790, 20.5719, 29.3455

CSS Examples

Text

The CSS property to change the color of the text to XYZ 20.4200, 21.8241, 46.3162 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(87, 132, 180)` looks like.

```
.text, #text, p{  
    color:rgb(87, 132, 180)  
}
```

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(87, 132, 180) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(87, 132, 180) }
```

Border

The CSS property to change the border of an element to XYZ 20.4200, 21.8241, 46.3162 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(87, 132, 180) }
```


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

```
.border{ border-color:rgb(87, 132, 180) }
```

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

Here you see how a box with a 4 pixel `rgb(87, 132, 180)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(87, 132, 180); -webkit-box-  
shadow:4px 4px 4px 4px rgb(87, 132, 180);  
box-shadow:4px 4px 4px 4px rgb(87, 132,  
180) }
```

Background

The CSS property to change the background color of an element to XYZ 20.4200, 21.8241, 46.3162 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(87, 132, 180) }
```

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

```
.background{ background-color: rgb(87, 132,  
180) }
```

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