

Converting Colors

XYZ(18.6525, 20.1603, 40.0124)

Have a look what the booklet for
XYZ(18.6525, 20.1603, 40.0124)
contains.

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Color

**XYZ(18.7175, 20.2917,
39.9760)**

Conversions

Conversions Part 1

Format	Color
Hex	5780A8
RGB	87, 128, 168
RGB Percent	34%, 50%, 66%
CMY	0.6588, 0.4980, 0.3412
CMYK	0.48, 0.24, 0.00, 0.34
HSL	210°, 32%, 50%
HSV	210°, 48%, 66%
XYZ	18.7175, 20.2917, 39.9760
YIQ	120.3010, -37.2760, 3.7480

Conversions

Conversions Part 2

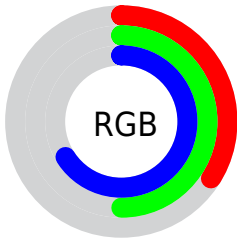
Format	Color
R_{YB}	87, 114, 168
Decimal	5734568
CIE _{Lab}	52.17, -2.92, -25.68
CIE _{LCh}	52, 25.850, 263.516
Yxy	20.2917, 0.2370, 0.2569
Android (android.graphics.Color)	4283924648 (0xFF5780A8)
YUV	120.3010, 23.5156, -29.2050
Hunter-Lab	45.0463, -4.6613, -21.0840

Details

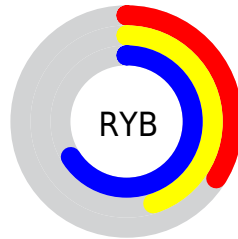
The XYZ color **18.7175, 20.2917, 39.9760** is a dark color, and the websafe version is hex **6699CC**. A complement of this color would be **25.4587, 24.1924, 12.3453**, and the grayscale version is **17.8851, 18.8165, 20.4912**.

A 20% lighter version of the original color is **40.8277, 44.0382, 76.1604**, and **6.5134, 7.1442, 17.5587** is the 20% darker color. If you saturate the color by 10%, you get **16.2896, 17.4991, 39.5653**, and if you desaturate by 10%, it is **21.6003, 23.4510, 40.4342**.

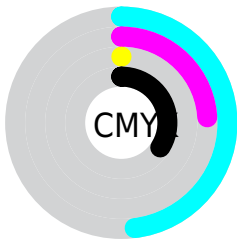
Distribution



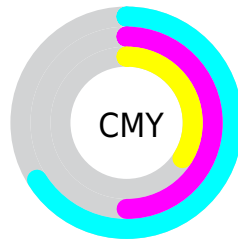
- Red (34%)
- Green (50%)
- Blue (66%)



- Red (34%)
- Yellow (45%)
- Blue (66%)



- Cyan (48%)
- Magenta (24%)
- Yellow (0%)
- Black (34%)



- Cyan (66%)
- Magenta (50%)
- Yellow (34%)

Brightness & Saturation Gradients

These gradients show how the XYZ color 18.7175, 20.2917, 39.9760 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 18.7175, 20.2917, 39.9760 by changing the saturation by 10% instead.

■ 18.7175, 20.2917,
39.9760

■ 18.7175, 20.2917,
39.9760

237.8529,
253.4899, 361.5715

■ 11.5691, 12.6073,
27.2062

■ 40.7768, 43.9057,
76.3637

■ 6.5211, 7.1587,
17.4943

■ 56.4184, 60.6041,
100.8186

■ 3.2081, 3.5615,
10.4219

■ 75.6218, 81.0758,
130.0056

■ 1.2647, 1.4314,
5.5703

■ 98.7523, 105.7054,
164.3433

■ 0.1566, 0.2397,
2.5211

126.1753,
134.8772, 204.2502

■ 0.0000, 0.0000,
0.8513

158.2562,

■ 0.0000, 0.0000,

168.9757, 250.1448

0.0000

195.3603,
208.3851, 302.4458

■ 18.7175, 20.2917,
39.9760

■ 18.7175, 20.2917,
39.9760

■ 16.2896, 17.4991,
39.5653

■ 21.6003, 23.4510,
40.4342

■ 14.2867, 15.0535,
39.1988

■ 24.9612, 26.9907,
40.9403

■ 12.6782, 12.9362,
38.8749

■ 28.8242, 30.9265,
41.4964

■ 11.4282, 11.1253,
38.5913

■ 33.2108, 35.2725,
42.1041

■ 10.4750, 9.5855,
38.3443

■ 38.1415, 40.0418,
42.7648

■ 10.3194, 9.3301,
38.3032

■ 43.6354, 45.2470,
43.4799

■ 49.7107, 50.9001,
44.2509

■ 56.3848, 57.0126,
45.0789

■ 63.6743, 63.5954,
45.9654

Harmonies

Analogous

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



16.4154, 20.2917, 36.0110



18.7175, 20.2917, 39.9760



21.3899, 20.2917, 38.3395

Triad

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



18.7175, 20.2917, 39.9760



24.3410, 20.2917, 16.7728



15.4765, 20.2917, 14.5100

Complementary

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



18.7175, 20.2917, 39.9760



25.4587, 24.1924, 12.3453

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.



17.3260, 20.2917, 11.2411



18.7175, 20.2917, 39.9760



22.4745, 20.2917, 12.3233

Square

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



18.7175, 20.2917, 39.9760



24.7996, 20.2917, 23.7818



19.8672, 20.2917, 10.5438



14.6580, 20.2917, 20.4885

Rectangle

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



18.7175, 20.2917, 39.9760



23.0084, 20.2917, 34.4424



19.8672, 20.2917, 10.5438



15.9896, 20.2917, 13.1186

Sweetspot

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



18.7182, 20.2925, 39.9765



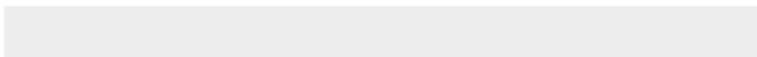
55.3382, 59.1494, 75.7254



21.7093, 31.5423, 24.7342



11.7107, 12.5427, 16.4559



80.6108, 84.8088, 92.3568



14.7206, 15.4872, 16.8656

Same Dimension

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



18.7182, 20.2925, 39.9765



29.2205, 31.3521, 71.7366



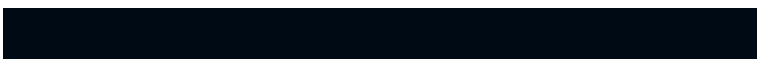
14.5175, 11.8912, 38.5763



7.4338, 7.9046, 9.5523



7.8442, 7.1485, 28.9419



0.2419, 0.2761, 0.7212

Inverse Universe

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



23.4535, 16.7004, 22.4101



39.1823, 25.1962, 34.4678



31.6239, 36.5228, 14.4004



7.6836, 7.6033, 8.6510



13.4600, 6.7927, 7.2337



0.3533, 0.1756, 0.3118

Previews

White Background



This preview shows how the XYZ color 18.7175, 20.2917, 39.9760 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 18.7175, 20.2917, 39.9760 looks on a black background.

Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

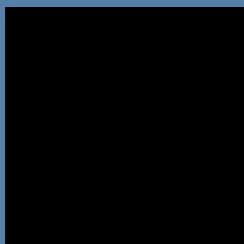
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA × Fail

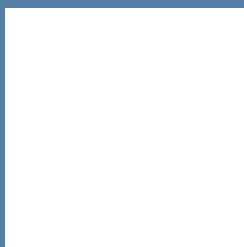
If you want to check with other color combinations, try the [Color Contrast Checker](#).

XYZ 18.7175, 20.2917, 39.9760

Background



This preview shows how black text looks on a background with the XYZ color 18.7175, 20.2917, 39.9760.

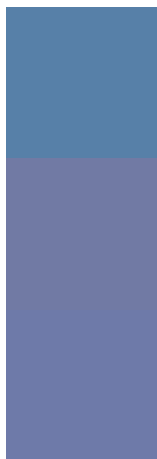


This preview shows how white text looks on a background with the XYZ color 18.7175, 20.2917,

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

18.7175, 20.2917, 39.9760

Protanopia

20.4704, 20.1101, 37.9247

Deuteranopia

20.5514, 20.0986, 40.3324



Tritanopia

16.5699, 20.4205, 29.0548

Trichromacy



Original Color

18.7175, 20.2917, 39.9760

Protanomaly

19.7081, 20.0750, 38.4334

Deuteranomaly

19.8486, 20.1047, 40.3706

Tritanomaly

17.2635, 20.2934, 32.7129

Monochromacy



Original Color

18.7175, 20.2917, 39.9760

Achromatopsia

17.8524, 18.7821, 20.4537

Achromatomaly

17.7827, 19.1602, 26.4280

CSS Examples

Text

The CSS property to change the color of the text to XYZ 18.7175, 20.2917, 39.9760 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, 128, 168)` looks like.

```
.text, #text, p{  
    color:rgb(87, 128, 168)  
}
```

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, 128, 168) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(87, 128, 168) }
```

Border

The CSS property to change the border of an element to XYZ 18.7175, 20.2917, 39.9760 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, 128, 168) }
```


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

```
.border{ border-color:rgb(87, 128, 168) }
```

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

Here you see how a box with a 4 pixel `rgb(87, 128, 168)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(87, 128, 168); -webkit-box-  
shadow:4px 4px 4px 4px rgb(87, 128, 168);  
box-shadow:4px 4px 4px 4px rgb(87, 128,  
168) }
```

Background

The CSS property to change the background color of an element to XYZ 18.7175, 20.2917, 39.9760 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(87, 128, 168) }
```

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

```
.background{ background-color: rgb(87, 128,  
168) }
```

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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