

Converting Colors

XYZ(20.0012, 19.3332, 70.3877)

Have a look what the booklet for
XYZ(20.0012, 19.3332, 70.3877)
contains.

XYZ(20.0012, 19.3332, 70.3877)	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(20.0012, 19.3332,
70.3877)**

Conversions

Conversions Part 1

Format	Color
Hex	007BDC
RGB	0, 123, 220
RGB Percent	0%, 48%, 86%
CMY	0.9998, 0.5176, 0.1373
CMYK	1.00, 0.44, 0.00, 0.14
HSL	206°, 100%, 43%
HSV	206°, 100%, 86%
XYZ	20.0012, 19.3332, 70.3877
YIQ	97.2810, -104.4450, 4.0910

Conversions

Conversions Part 2

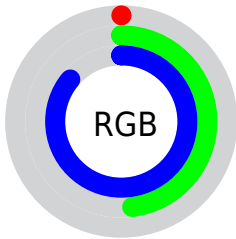
Format	Color
R _{YB}	0, 79, 220
Decimal	31708
CIE Lab	51.07, 8.29, -57.29
CIE LCh	51, 57.882, 278.230
Yxy	19.3332, 0.1823, 0.1762
Android (android.graphics.Color)	4278221788 (0xFF007BDC)
YUV	97.2810, 60.5005, -85.3154
Hunter-Lab	43.9695, 4.2508, -64.1345

Details

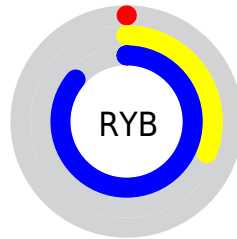
The XYZ color **20.0012, 19.3332, 70.3877** is a dark color, and the websafe version is hex **0066CC**. The color can be described as dark washed azure. A complement of this color would be **33.7952, 23.7749, 2.8093**, and the grayscale version is **11.3097, 11.8987, 12.9576**.

A 20% lighter version of the original color is **38.9735, 40.7635, 100.4218**, and **9.2169, 7.7125, 36.1248** is the 20% darker color. If you saturate the color by 10%, you get **19.9985, 19.3277, 70.3872**, and if you desaturate by 10%, it is **21.5973, 22.0323, 70.8250**.

Distribution



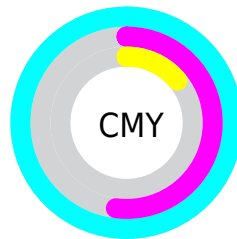
- Red (0%)
- Green (48%)
- Blue (86%)



- Red (0%)
- Yellow (31%)
- Blue (86%)



- Cyan (100%)
- Magenta (44%)
- Yellow (0%)
- Black (14%)



- Cyan (100%)
- Magenta (52%)
- Yellow (14%)

Brightness & Saturation Gradients

These gradients show how the XYZ color 20.0012, 19.3332, 70.3877 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 20.0012, 19.3332, 70.3877 by changing the saturation by 10% instead.

■ 20.0012, 19.3332,
70.3877

■ 20.0012, 19.3332,
70.3877

244.7551,
248.2821, 480.7360

■ 12.5042, 11.9113,
51.3639

■ 42.9231, 42.2964,
121.4478

■ 7.1627, 6.6833,
36.1196

■ 59.0787, 58.6064,
154.3211

■ 3.6113, 3.2648,
24.2361

■ 78.8513, 78.6480,
192.6481

■ 1.4847, 1.2715,
15.2951

■ 102.6061,
102.8054, 236.8472

■ 0.3154, 0.1190,
8.8778

■ 130.7085,
131.4632, 287.3370

■ 0.0000, 0.0000,
4.5658

163.5239,

■ 0.0000, 0.0000,

165.0056, 344.5361

1.9406

201.4176,
203.8171, 408.8629

■ 0.0000, 0.0000,
0.5184

■ 0.0000, 0.0000,
0.0000

■ 20.0012, 19.3332,
70.3877

■ 20.0012, 19.3332,
70.3877

■ 19.9985, 19.3277,
70.3872

■ 21.5973, 22.0323,
70.8250

■ 23.6927, 25.1708,
71.3204

■ 26.4144, 28.8188,
71.8811

■ 29.8347, 33.0183,
72.5114

■ 34.0152, 37.8054,
73.2150

■ 39.0099, 43.2122,
73.9954

■ 44.8675, 49.2679,
74.8555

■ 51.6328, 55.9996,
75.7983

■ 59.3471, 63.4324,
76.8264

Harmonies

Analogous

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



14.5788, 19.3332, 66.1623



20.0012, 19.3332, 70.3877



26.0864, 19.3332, 56.9211

Triad

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



20.0012, 19.3332, 70.3877



28.4802, 19.3332, 6.9236



9.9137, 19.3332, 11.3692

Complementary

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



20.0012, 19.3332, 70.3877



33.7952, 23.7749, 2.8093

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.



12.3571, 19.3332, 4.7041



20.0012, 19.3332, 70.3877



22.7804, 19.3332, 3.2269

Square

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



20.0012, 19.3332, 70.3877



31.6058, 19.3332, 16.8424



16.8406, 19.3332, 2.7053



9.4740, 19.3332, 25.9071

Rectangle

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



20.0012, 19.3332, 70.3877



29.4463, 19.3332, 42.4633



16.8406, 19.3332, 2.7053



10.4991, 19.3332, 8.4089

Sweetspot

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



20.0021, 19.3338, 70.3882



62.4509, 68.5959, 104.5566



27.6762, 52.0200, 19.4954



12.5930, 13.8905, 22.2674



0.0000, 0.0000, 0.0000



20.3446, 21.4041, 23.3091

Same Dimension

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



20.0021, 19.3338, 70.3882



27.8038, 26.7276, 98.3013



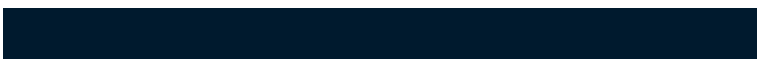
13.0859, 5.5013, 68.0828



12.9394, 13.8185, 16.6374



11.8497, 11.5688, 41.3469



0.8530, 0.9202, 2.7071

Inverse Universe

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



33.0912, 16.6470, 20.2082



46.1633, 23.2293, 27.8556



51.4279, 59.0402, 8.6869



13.3593, 13.1728, 15.1531



19.4765, 9.7916, 12.1552



1.3049, 0.6516, 1.0143

Previews

White Background



This preview shows how the XYZ color 20.0012, 19.3332, 70.3877 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 20.0012, 19.3332, 70.3877 looks on a black background.

Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

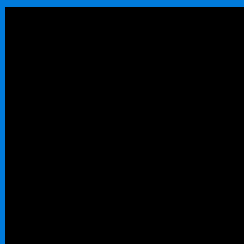
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA × Fail

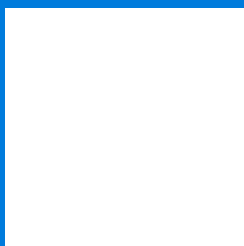
If you want to check with other color combinations, try the [Color Contrast Checker](#).

XYZ 20.0012, 19.3332, 70.3877

Background



This preview shows how black text looks on a background with the XYZ color 20.0012, 19.3332, 70.3877.



This preview shows how white text looks on a background with the XYZ color 20.0012, 19.3332,

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

20.0012, 19.3332, 70.3877

Protanopia

21.7247, 19.3997, 66.8895

Deuteranopia

19.7378, 19.2279, 69.0007



Tritanopia

13.6980, 19.3416, 29.3969

Trichromacy



Original Color

20.0012, 19.3332, 70.3877

Protanomaly

20.4598, 19.0711, 68.2484

Deuteranomaly

19.8691, 19.2804, 69.6921

Tritanomaly

15.5627, 19.2112, 41.9176

Monochromacy



Original Color

20.0012, 19.3332, 70.3877

Achromatopsia

11.3621, 11.9538, 13.0177

Achromatomaly

12.0231, 13.2852, 27.5218

CSS Examples

Text

The CSS property to change the color of the text to XYZ 20.0012, 19.3332, 70.3877 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(0, 123, 220)` looks like.

```
.text, #text, p{  
    color:rgb(0, 123, 220)  
}
```

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(0, 123, 220) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(0, 123, 220) }
```

Border

The CSS property to change the border of an element to XYZ 20.0012, 19.3332, 70.3877 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(0, 123, 220) }
```


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

```
.border{ border-color:rgb(0, 123, 220) }
```

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

Here you see how a box with a 4 pixel `rgb(0, 123, 220)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(0, 123, 220); -webkit-box-  
shadow:4px 4px 4px 4px rgb(0, 123, 220);  
box-shadow:4px 4px 4px 4px rgb(0, 123,  
220) }
```

Background

The CSS property to change the background color of an element to XYZ 20.0012, 19.3332, 70.3877 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(0, 123, 220) }
```

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

```
.background{ background-color: rgb(0, 123,  
220) }
```

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