

Converting Colors

XYZ(12.2470, 15.2687, 71.8141)

Have a look what the booklet for
XYZ(12.2470, 15.2687, 71.8141)
contains.

XYZ(20.4022, 19.4936, 72.4994)	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(20.4022, 19.4936,
72.4994)**

Conversions

Conversions Part 1

Format	Color
Hex	007BDF
RGB	0, 123, 223
RGB Percent	0%, 48%, 87%
CMY	0.9998, 0.5176, 0.1255
CMYK	1.00, 0.45, 0.00, 0.13
HSL	207°, 100%, 44%
HSV	207°, 100%, 87%
XYZ	20.4022, 19.4936, 72.4994
YIQ	97.6230, -105.4080, 5.0240

Conversions

Conversions Part 2

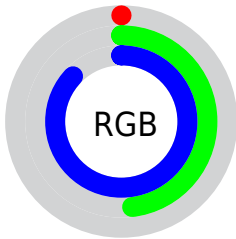
Format	Color
RYB	0, 79, 223
Decimal	31711
CIELab	51.26, 9.46, -58.68
CIElCh	51, 59.437, 279.161
Yxy	19.4936, 0.1815, 0.1734
Android (android.graphics.Color)	4278221791 (0xFF007BDF)
YUV	97.6230, 61.8109, -85.6154
Hunter-Lab	44.1516, 5.2187, -66.4515

Details

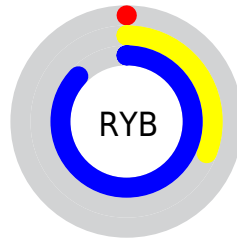
The XYZ color **20.4022, 19.4936, 72.4994** is a dark color, and the websafe version is hex **0066CC**. The color can be described as dark washed azure. A complement of this color would be **34.9942, 24.8127, 2.9465**, and the grayscale version is **11.3907, 11.9839, 13.0505**.

A 20% lighter version of the original color is **39.0889, 40.8230, 100.4272**, and **9.4911, 7.8222, 37.5688** is the 20% darker color. If you saturate the color by 10%, you get **20.3995, 19.4879, 72.4989**, and if you desaturate by 10%, it is **22.0460, 22.2782, 72.9507**.

Distribution



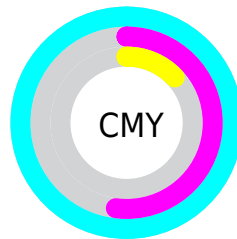
- Red (0%)
- Green (48%)
- Blue (87%)



- Red (0%)
- Yellow (31%)
- Blue (87%)



- Cyan (100%)
- Magenta (45%)
- Yellow (0%)
- Black (13%)



- Cyan (100%)
- Magenta (52%)
- Yellow (13%)

Brightness & Saturation Gradients

These gradients show how the XYZ color 20.4022, 19.4936, 72.4994 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 20.4022, 19.4936, 72.4994 by changing the saturation by 10% instead.

■ 20.4022, 19.4936,
72.4994

■ 20.4022, 19.4936,
72.4994

246.8765,
249.1603, 488.3022

■ 12.7977, 12.0275,
53.0774

■ 43.5893, 42.5665,
124.4806

■ 7.3654, 6.7624,
37.4764

■ 59.9026, 58.9421,
157.8769

■ 3.7400, 3.3140,
25.2779

■ 79.8496, 79.0563,
196.7683

■ 1.5561, 1.2978,
16.0633

■ 103.7955,
103.2935, 241.5735

■ 0.3636, 0.1395,
9.4141

■ 132.1058,
132.0381, 292.7109

■ 0.0000, 0.0000,
4.9118

165.1459,

■ 0.0000, 0.0000,

165.6745, 350.5992

2.1378

203.2810,
204.5871, 415.6567

■ 0.0000, 0.0000,
0.6381

■ 0.0000, 0.0000,
0.0000

■ 20.4022, 19.4936,
72.4994

■ 20.4022, 19.4936,
72.4994

■ 20.3995, 19.4879,
72.4989

■ 22.0460, 22.2782,
72.9507

■ 24.2096, 25.5243,
73.4632

■ 27.0234, 29.3044,
74.0446

■ 30.5625, 33.6621,
74.6992

■ 34.8907, 38.6352,
75.4309

■ 40.0641, 44.2572,
76.2434

■ 46.1332, 50.5586,
77.1398

■ 53.1443, 57.5676,
78.1232

■ 61.1404, 65.3107,
79.1963

Harmonies

Analogous

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



14.7625, 19.4936, 68.6706



20.4022, 19.4936, 72.4994



26.6964, 19.4936, 57.9202

Triad

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



20.4022, 19.4936, 72.4994



28.8432, 19.4936, 6.5664



9.7881, 19.4936, 11.6031

Complementary

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



20.4022, 19.4936, 72.4994



34.9942, 24.8127, 2.9465

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.



12.2232, 19.4936, 4.6441



20.4022, 19.4936, 72.4994



22.8850, 19.4936, 3.0014

Square

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



20.4022, 19.4936, 72.4994



32.2093, 19.4936, 16.4418



16.7724, 19.4936, 2.5586



9.4011, 19.4936, 26.8566

Rectangle

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



20.4022, 19.4936, 72.4994



30.1360, 19.4936, 42.7367



16.7724, 19.4936, 2.5586



10.3649, 19.4936, 8.5055

Sweetspot

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



20.4031, 19.4942, 72.4999



62.2989, 68.2920, 104.5059



28.5305, 53.6329, 20.0757



12.5570, 13.8184, 22.2553



0.0000, 0.0000, 0.0000



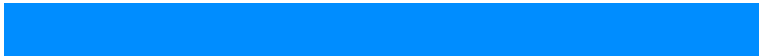
20.3446, 21.4041, 23.3091

Same Dimension

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



20.4031, 19.4942, 72.4999



27.5194, 26.1588, 98.2065



13.4897, 5.6674, 70.1955



13.5755, 14.4902, 17.4691



12.1090, 11.6876, 42.6661



0.9283, 0.9882, 2.9870

Inverse Universe

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



34.0074, 17.1193, 20.2510



46.0197, 23.1719, 27.0997



53.0214, 60.8670, 8.9555



14.0220, 13.8264, 15.8859



20.0523, 10.0879, 12.2069



1.4348, 0.7172, 1.0827

Previews

White Background



This preview shows how the XYZ color 20.4022, 19.4936, 72.4994 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 20.4022, 19.4936, 72.4994 looks on a black background.

Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

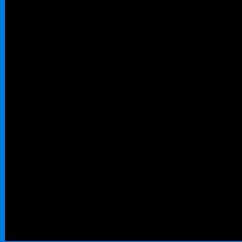
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA × Fail

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

XYZ 20.4022, 19.4936, 72.4994

Background



This preview shows how black text looks on a background with the XYZ color 20.4022, 19.4936, 72.4994.



This preview shows how white text looks on a background with the XYZ color 20.4022, 19.4936,

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

20.4022, 19.4936, 72.4994

Protanopia

21.9574, 19.4747, 68.9314

Deuteranopia

19.9938, 19.5298, 69.7337



Tritanopia

13.6980, 19.3416, 29.3969

Trichromacy



Original Color

20.4022, 19.4936, 72.4994

Protanomaly

20.8070, 19.2046, 70.3204

Deuteranomaly

20.1259, 19.5826, 70.4292

Tritanomaly

15.6591, 19.2497, 42.4254

Monochromacy



Original Color

20.4022, 19.4936, 72.4994

Achromatopsia

11.6093, 12.2139, 13.3009

Achromatomaly

12.2022, 13.5227, 27.9536

CSS Examples

Text

The CSS property to change the color of the text to XYZ 20.4022, 19.4936, 72.4994 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, 223)` looks like.

```
.text, #text, p{  
  color:rgb(0, 123, 223)  
}
```

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, 223) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(0, 123, 223) }
```

Border

The CSS property to change the border of an element to XYZ 20.4022, 19.4936, 72.4994 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, 223) }
```


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

```
.border{ border-color:rgb(0, 123, 223) }
```

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, 223) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(0, 123, 223); -webkit-box-  
shadow:4px 4px 4px 4px rgb(0, 123, 223);  
box-shadow:4px 4px 4px 4px rgb(0, 123,  
223) }
```

Background

The CSS property to change the background color of an element to XYZ 20.4022, 19.4936, 72.4994 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, 223) }
```

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

```
.background{ background-color: rgb(0, 123,  
223) }
```

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