

Converting Colors

XYZ(12.2371, 9.9074, 142.5172)

Have a look what the booklet for
XYZ(12.2371, 9.9074, 142.5172)
contains.

| | |
|--|----|
| XYZ(22.6072, 16.3343, 96.5691) | 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(22.6072, 16.3343,
96.5691)**

Conversions

Conversions Part 1

| Format | Color |
|---------------|-----------------------------|
| Hex | 0064FF |
| RGB | 0, 100, 255 |
| RGB Percent | 0%, 39%, 100% |
| CMY | 0.9997, 0.6078, 0.0000 |
| CMYK | 1.00, 0.61, 0.00, 0.00 |
| HSL | 216°, 100%, 50% |
| HSV | 216°, 100%, 100% |
| XYZ | 22.6072, 16.3343, 96.5691 |
| YIQ | 87.7700, -109.3550, 27.0050 |

Conversions

Conversions Part 2

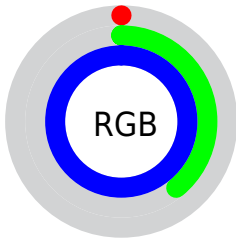
| Format | Color |
|-------------------------------------|--------------------------------|
| R _{YB} | 0, 72, 255 |
| Decimal | 25855 |
| CIE _{Lab} | 47.41, 36.47, -82.83 |
| CIE _{LCh} | 47, 90.505, 293.767 |
| Yxy | 16.3343, 0.1668, 0.1205 |
| Android (android.graphics.Color) | 4278215935 (0xFF0064FF) |
| YUV | 87.7700, 82.4444, -76.9743 |
| Hunter-Lab | 40.4157, 29.1194, -113.3762 |

Details

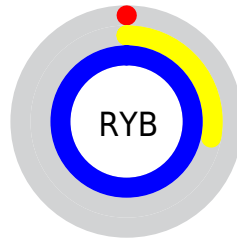
The XYZ color **22.6072, 16.3343, 96.5691** is a dark color, and the websafe version is hex **0066FF**. The color can be described as dark saturated azure. A complement of this color would be **52.9755, 44.7303, 5.8440**, and the grayscale version is **9.0748, 9.5474, 10.3971**.

A 20% lighter version of the original color is **35.8958, 32.6101, 99.0102**, and **11.4442, 6.7636, 53.5257** is the 20% darker color. If you saturate the color by 10%, you get **22.6023, 16.3246, 96.5674**, and if you desaturate by 10%, it is **24.6537, 19.8108, 97.1322**.

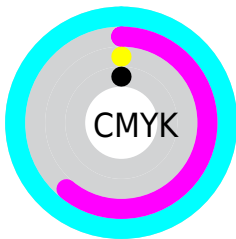
Distribution



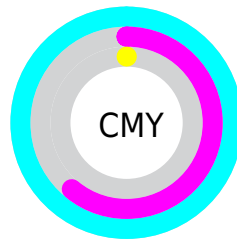
- Red (0%)
- Green (39%)
- Blue (100%)



- Red (0%)
- Yellow (28%)
- Blue (100%)



- Cyan (100%)
- Magenta (61%)
- Yellow (0%)
- Black (0%)



- Cyan (100%)
- Magenta (61%)
- Yellow (0%)

Brightness & Saturation Gradients

These gradients show how the XYZ color 22.6072, 16.3343, 96.5691 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 22.6072, 16.3343, 96.5691 by changing the saturation by 10% instead.

■ 22.6072, 16.3343,
96.5691

■ 22.6072, 16.3343,
96.5691

258.2742,
231.3063, 570.2883

■ 14.4228, 9.7610,
72.8375

■ 47.2190, 37.1776,
158.4448

■ 8.4990, 5.2408,
53.3521

■ 64.3771, 52.2164,
197.4260

■ 4.4703, 2.3892,
37.6943

■ 85.2571, 70.8458,
242.3275

■ 1.9715, 0.8203,
25.4455

■ 110.2245, 93.4503,
293.5678

■ 0.6179, 0.0000,
16.1873

■ 139.6445,
120.4142, 351.5655

■ 0.0000, 0.0000,
9.5010

173.8826,

■ 0.0000, 0.0000,

152.1219, 416.7392

4.9681

213.3040,
188.9578, 489.5072

■ 0.0000, 0.0000,
2.1702

■ 0.0000, 0.0000,
0.6571

■ 22.6072, 16.3343,
96.5691

■ 22.6072, 16.3343,
96.5691

■ 22.6023, 16.3246,
96.5674

■ 24.6537, 19.8108,
97.1322

■ 27.5368, 24.1608,
97.8199

■ 31.4351, 29.4969,
98.6444

■ 36.4623, 35.8968,
99.6147

■ 42.7150, 43.4284,
100.7389

■ 50.2785, 52.1529,
102.0243

■ 59.2299, 62.1264,
103.4776

■ 69.6401, 73.4011,
105.1051

■ 81.5748, 86.0258,
106.9129

Harmonies

Analogous

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



13.9102, 16.3343, 107.7392



22.6072, 16.3343, 96.5691



31.5841, 16.3343, 58.7508

Triad

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



22.6072, 16.3343, 96.5691



26.5418, 16.3343, 0.6110



4.6867, 16.3343, 13.4077

Complementary

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



22.6072, 16.3343, 96.5691



52.9755, 44.7303, 5.8440

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.



6.1119, 16.3343, 2.3689



22.6072, 16.3343, 96.5691



17.2607, 16.3343, 0.0000

Square

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



22.6072, 16.3343, 96.5691



34.3496, 16.3343, 5.2628



10.1023, 16.3343, 0.0000



5.2559, 16.3343, 42.1855

Rectangle

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



22.6072, 16.3343, 96.5691



35.5399, 16.3343, 33.2106



10.1023, 16.3343, 0.0000



4.9264, 16.3343, 8.0748

Sweetspot

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



22.6080, 16.3346, 96.5691



59.1993, 62.0928, 103.4727



41.5135, 73.8215, 42.2120



11.8265, 12.3574, 22.0118



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.



22.6080, 16.3346, 96.5691



22.6023, 16.3246, 96.5674



18.4660, 7.4358, 95.0697



17.5870, 18.5456, 22.9027



11.9450, 8.7996, 50.5035



1.2657, 1.0620, 4.9516

Inverse Universe

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



43.5411, 22.1818, 14.0429



43.5378, 22.1791, 14.0301



68.2359, 88.2619, 13.4422



18.3042, 18.1050, 20.2189



22.8175, 11.6163, 7.6894



2.2735, 1.1518, 1.0215

Previews

White Background



This preview shows how the XYZ color 22.6072, 16.3343, 96.5691 looks on a white 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

Black Background



This preview shows how the XYZ color 22.6072, 16.3343, 96.5691 looks on a black background.

Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA × Fail

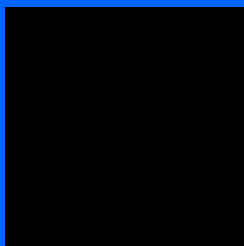
Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail

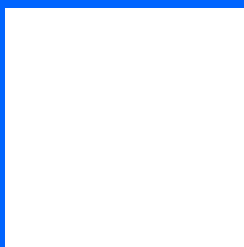
If you want to check with other color combinations, try the [Color Contrast Checker](#).

XYZ 22.6072, 16.3343, 96.5691

Background



This preview shows how black text looks on a background with the XYZ color 22.6072, 16.3343, 96.5691.



This preview shows how white text looks on a background with the XYZ color 22.6072, 16.3343,

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

22.6072, 16.3343, 96.5691

Protanopia

19.3662, 16.3266, 75.5294

Deuteranopia

15.9811, 16.2016, 53.9147



Tritanopia

11.3044, 16.0540, 23.9757

Trichromacy



Original Color

22.6072, 16.3343, 96.5691

Protanomaly

20.4842, 16.2762, 82.9509

Deuteranomaly

18.1003, 16.1616, 67.8112

Tritanomaly

13.9672, 15.3961, 43.3099

Monochromacy



Original Color

22.6072, 16.3343, 96.5691

Achromatopsia

9.2757, 9.7587, 10.6273

Achromatomaly

10.8828, 10.6650, 29.9187

CSS Examples

Text

The CSS property to change the color of the text to XYZ 22.6072, 16.3343, 96.5691 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, 100, 255)` looks like.

```
.text, #text, p{  
    color:rgb(0, 100, 255)  
}
```

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, 100, 255) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(0, 100, 255) }
```

Border

The CSS property to change the border of an element to XYZ 22.6072, 16.3343, 96.5691 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, 100, 255) }
```


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

```
.border{ border-color:rgb(0, 100, 255) }
```

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

Here you see how a box with a 4 pixel `rgb(0, 100, 255)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px 4px rgb(0, 100, 255); -webkit-box-shadow:4px 4px 4px 4px rgb(0, 100, 255); box-shadow:4px 4px 4px 4px rgb(0, 100, 255) }
```

Background

The CSS property to change the background color of an element to XYZ 22.6072, 16.3343, 96.5691 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(0, 100, 255) }
```

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

```
.background{ background-color: rgb(0, 100,  
255) }
```

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