

Converting Colors

XYZ(12.0811, 16.3049, 71.5335)

Have a look what the booklet for
XYZ(12.0811, 16.3049, 71.5335)
contains.

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Color

**XYZ(21.0351, 20.9744,
72.0470)**

Conversions

Conversions Part 1

Format	Color
Hex	0081DE
RGB	0, 129, 222
RGB Percent	0%, 51%, 87%
CMY	0.9998, 0.4941, 0.1294
CMYK	1.00, 0.42, 0.00, 0.13
HSL	205°, 100%, 44%
HSV	205°, 100%, 87%
XYZ	21.0351, 20.9744, 72.0470
YIQ	101.0310, -106.7370, 1.5750

Conversions

Conversions Part 2

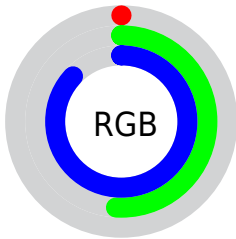
Format	Color
R _{YB}	0, 82, 222
Decimal	33246
CIE _{Lab}	52.92, 5.36, -55.45
CIE _{LCh}	53, 55.709, 275.526
Y _{xy}	20.9744, 0.1844, 0.1839
Android (android.graphics.Color)	4278223326 (0xFF0081DE)
YUV	101.0310, 59.6377, -88.6042
Hunter-Lab	45.7978, 1.8395, -61.2138

Details

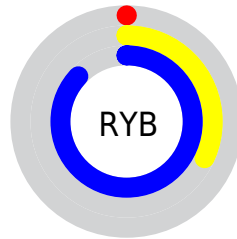
The XYZ color **21.0351, 20.9744, 72.0470** is a dark color, and the websafe version is hex **0099FF**. The color can be described as dark washed azure. A complement of this color would be **34.0445, 23.3693, 2.7182**, and the grayscale version is **12.2533, 12.8915, 14.0388**.

A 20% lighter version of the original color is **40.1674, 43.1513, 100.8197**, and **9.8254, 8.6380, 37.2258** is the 20% darker color. If you saturate the color by 10%, you get **21.0318, 20.9678, 72.0464**, and if you desaturate by 10%, it is **22.6536, 23.7116, 72.4905**.

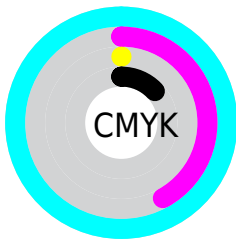
Distribution



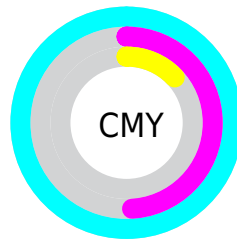
- Red (0%)
- Green (51%)
- Blue (87%)



- Red (0%)
- Yellow (32%)
- Blue (87%)



- Cyan (100%)
- Magenta (42%)
- Yellow (0%)
- Black (13%)



- Cyan (100%)
- Magenta (49%)
- Yellow (13%)

Brightness & Saturation Gradients

These gradients show how the XYZ color 21.0351, 20.9744, 72.0470 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 21.0351, 20.9744, 72.0470 by changing the saturation by 10% instead.

■ 21.0351, 20.9744,
72.0470

■ 21.0351, 20.9744,
72.0470

250.1932,
257.1424, 486.6871

■ 13.2623, 13.1053,
52.7100

■ 44.6368, 45.0449,
123.8317

■ 7.6876, 7.5011,
37.1852

■ 61.1963, 62.0151,
157.1165

■ 3.9458, 3.7774,
25.0540

■ 81.4155, 82.7878,
195.8876

■ 1.6715, 1.5498,
15.8979

■ 105.6597,
107.7474, 240.5636

■ 0.4384, 0.3234,
9.2984

■ 134.2942,
137.2783, 291.5630

■ 0.0000, 0.0000,
4.8368

167.6843,

■ 0.0000, 0.0000,

171.7648, 349.3043

2.0948

206.1955,
211.5914, 414.2062

■ 0.0000, 0.0000,
0.6127

■ 0.0000, 0.0000,
0.0000

■ 21.0351, 20.9744,
72.0470

■ 21.0351, 20.9744,
72.0470

■ 21.0318, 20.9678,
72.0464

■ 22.6536, 23.7116,
72.4905

■ 24.7717, 26.8760,
72.9897

■ 27.5180, 30.5382,
73.5518

■ 30.9660, 34.7401,
74.1811

■ 35.1783, 39.5177,
74.8813

■ 40.2097, 44.9028,
75.6555

■ 46.1095, 50.9247,
76.5069

■ 52.9231, 57.6101,
77.4382

■ 60.6923, 64.9840,
78.4520

Harmonies

Analogous

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



15.6408, 20.9744, 66.3190



21.0351, 20.9744, 72.0470



27.1883, 20.9744, 60.2207

Triad

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



21.0351, 20.9744, 72.0470



30.5270, 20.9744, 8.7964



11.3711, 20.9744, 11.9480

Complementary

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



21.0351, 20.9744, 72.0470



34.0445, 23.3693, 2.7182

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.



14.1030, 20.9744, 5.4022



21.0351, 20.9744, 72.0470



24.9522, 20.9744, 4.3035

Square

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



21.0351, 20.9744, 72.0470



33.3120, 20.9744, 19.8822



18.8750, 20.9744, 3.4652



10.7264, 20.9744, 26.0722

Rectangle

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



21.0351, 20.9744, 72.0470



30.6841, 20.9744, 46.2698



18.8750, 20.9744, 3.4652



12.0455, 20.9744, 9.0545

Sweetspot

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



21.0360, 20.9750, 72.0476



62.8977, 69.4896, 104.7055



28.0775, 53.0254, 19.0036



12.6991, 14.1027, 22.3027



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.



21.0360, 20.9750, 72.0476



28.6629, 28.4457, 98.5876



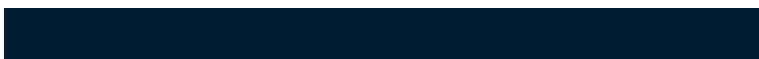
13.4111, 5.7252, 69.5059



13.6102, 14.5595, 17.4806



12.6046, 12.6788, 42.8313



0.9616, 1.0547, 2.9981

Inverse Universe

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



34.0876, 17.1160, 22.2762



46.5969, 23.4028, 30.1390



51.6003, 58.4810, 8.5701



14.0395, 13.8334, 15.9780



20.3024, 10.1880, 13.5243



1.4516, 0.7239, 1.1711

Previews

White Background



This preview shows how the XYZ color 21.0351, 20.9744, 72.0470 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 21.0351, 20.9744, 72.0470 looks on a black background.

Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

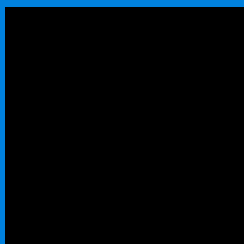
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA × Fail

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

XYZ 21.0351, 20.9744, 72.0470

Background



This preview shows how black text looks on a background with the XYZ color 21.0351, 20.9744, 72.0470.



This preview shows how white text looks on a background with the XYZ color 21.0351, 20.9744,

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

21.0351, 20.9744, 72.0470

Protanopia

23.2239, 21.0551, 67.8057

Deuteranopia

21.7407, 21.1436, 72.0425



Tritanopia

14.8029, 20.9261, 31.6927

Trichromacy



Original Color

21.0351, 20.9744, 72.0470

Protanomaly

21.5098, 20.5135, 69.1555

Deuteranomaly

21.3049, 20.9189, 72.0221

Tritanomaly

16.6406, 20.7429, 44.2010

Monochromacy



Original Color

21.0351, 20.9744, 72.0470

Achromatopsia

12.3695, 13.0136, 14.1719

Achromatomaly

12.9096, 14.5032, 28.9071

CSS Examples

Text

The CSS property to change the color of the text to XYZ 21.0351, 20.9744, 72.0470 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, 129, 222)` looks like.

```
.text, #text, p{  
    color:rgb(0, 129, 222)  
}
```

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, 129, 222) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(0, 129, 222) }
```

Border

The CSS property to change the border of an element to XYZ 21.0351, 20.9744, 72.0470 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, 129, 222) }
```


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

```
.border{ border-color:rgb(0, 129, 222) }
```

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

Here you see how a box with a 4 pixel rgb(0, 129, 222) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(0, 129, 222); -webkit-box-  
shadow:4px 4px 4px 4px rgb(0, 129, 222);  
box-shadow:4px 4px 4px 4px rgb(0, 129,  
222) }
```

Background

The CSS property to change the background color of an element to XYZ 21.0351, 20.9744, 72.0470 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(0, 129, 222) }
```

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

```
.background{ background-color: rgb(0, 129,  
222) }
```

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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