

Converting Colors

XYZ(12.9412, 16.7141, 77.9122)

Have a look what the booklet for
XYZ(12.9412, 16.7141, 77.9122)
contains.

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Color

**XYZ(22.2741, 21.4700,
78.5715)**

Conversions

Conversions Part 1

Format	Color
Hex	0081E7
RGB	0, 129, 231
RGB Percent	0%, 51%, 91%
CMY	0.9997, 0.4941, 0.0941
CMYK	1.00, 0.44, 0.00, 0.09
HSL	207°, 100%, 45%
HSV	207°, 100%, 91%
XYZ	22.2741, 21.4700, 78.5715
YIQ	102.0570, -109.6260, 4.3740

Conversions

Conversions Part 2

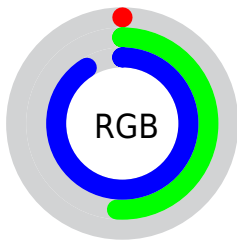
Format	Color
RYB	0, 83, 231
Decimal	33255
CIELab	53.46, 8.87, -59.63
CIELCh	53, 60.287, 278.459
Yxy	21.4700, 0.1821, 0.1755
Android (android.graphics.Color)	4278223335 (0xFF0081E7)
YUV	102.0570, 63.5689, -89.5040
Hunter-Lab	46.3357, 4.7194, -68.1030

Details

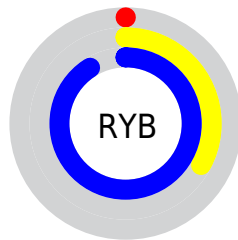
The XYZ color **22.2741, 21.4700, 78.5715** is a dark color, and the websafe version is hex **3399FF**. The color can be described as dark washed azure. A complement of this color would be **37.7135, 26.5051, 3.1302**, and the grayscale version is **12.5094, 13.1608, 14.3321**.

A 20% lighter version of the original color is **40.5177, 43.3319, 100.8361**, and **10.6803, 8.9800, 41.7278** is the 20% darker color. If you saturate the color by 10%, you get **22.2704, 21.4625, 78.5708**, and if you desaturate by 10%, it is **24.0432, 24.4779, 79.0594**.

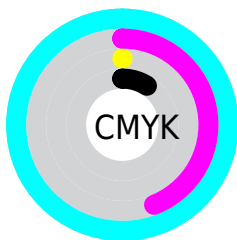
Distribution



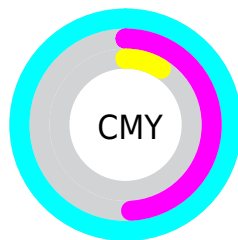
- Red (0%)
- Green (51%)
- Blue (91%)



- Red (0%)
- Yellow (33%)
- Blue (91%)



- Cyan (100%)
- Magenta (44%)
- Yellow (0%)
- Black (9%)



- Cyan (100%)
- Magenta (49%)
- Yellow (9%)

Brightness & Saturation Gradients

These gradients show how the XYZ color 22.2741, 21.4700, 78.5715 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 22.2741, 21.4700, 78.5715 by changing the saturation by 10% instead.

■ 22.2741, 21.4700,
78.5715

■ 22.2741, 21.4700,
78.5715

256.5799,
259.7658, 509.6848

■ 14.1762, 13.4680,
58.0243

■ 46.6741, 45.8684,
133.1486

■ 8.3258, 7.7516,
41.4134

■ 63.7069, 63.0337,
168.0157

■ 4.3577, 3.9364,
28.3201

■ 84.4487, 84.0221,
208.4931

■ 1.9064, 1.6381,
18.3260

■ 109.2648,
109.2181, 254.9995

■ 0.5806, 0.3831,
11.0124

■ 138.5206,
139.0061, 307.9533

■ 0.0000, 0.0000,
5.9609

172.5815,

■ 0.0000, 0.0000,

173.7704, 367.7731

2.7529

211.8128,
213.8955, 434.8774

■ 0.0000, 0.0000,
0.9699

■ 0.0000, 0.0000,
0.0000

■ 22.2741, 21.4700,
78.5715

■ 22.2741, 21.4700,
78.5715

■ 22.2704, 21.4625,
78.5708

■ 24.0432, 24.4779,
79.0594

■ 26.3745, 27.9803,
79.6125

■ 29.4074, 32.0546,
80.2391

■ 33.2239, 36.7481,
80.9439

■ 37.8932, 42.1016,
81.7311

■ 43.4766, 48.1514,
82.6046

■ 50.0288, 54.9305,
83.5677

■ 57.6004, 62.4693,
84.6238

■ 66.2379, 70.7963,
85.7758

Harmonies

Analogous

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



16.2067, 21.4700, 73.9921



22.2741, 21.4700, 78.5715



29.0738, 21.4700, 63.3523

Triad

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



22.2741, 21.4700, 78.5715



31.6617, 21.4700, 7.5769



10.9538, 21.4700, 12.6627

Complementary

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



22.2741, 21.4700, 78.5715



37.7135, 26.5051, 3.1302

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.



13.6597, 21.4700, 5.1975



22.2741, 21.4700, 78.5715



25.2758, 21.4700, 3.5151

Square

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



22.2741, 21.4700, 78.5715



35.1896, 21.4700, 18.5591



18.6465, 21.4700, 2.9586



10.4807, 21.4700, 28.9643

Rectangle

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



22.2741, 21.4700, 78.5715



32.8188, 21.4700, 47.1358



18.6465, 21.4700, 2.9586



11.6003, 21.4700, 9.3454

Sweetspot

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



22.2751, 21.4706, 78.5721



62.4373, 68.5687, 104.5520



30.8839, 58.0755, 21.6736



12.5898, 13.8840, 22.2663



0.0000, 0.0000, 0.0000



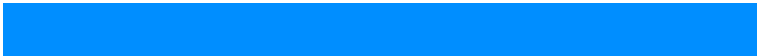
20.3446, 21.4041, 23.3091

Same Dimension

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



22.2751, 21.4706, 78.5721



27.7782, 26.6764, 98.2927



14.6022, 6.1248, 76.0145



14.2469, 15.2152, 18.3303



12.6107, 12.2836, 44.0895



1.0241, 1.0922, 3.2888

Inverse Universe

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



36.9184, 18.5755, 22.4086



46.1503, 23.2241, 27.7875



57.4104, 65.8988, 9.6958



14.7122, 14.5021, 16.6849



20.7588, 10.4377, 12.8909



1.5806, 0.7899, 1.1978

Previews

White Background



This preview shows how the XYZ color 22.2741, 21.4700, 78.5715 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 22.2741, 21.4700, 78.5715 looks on a black background.

Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

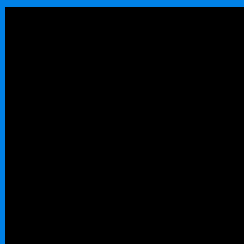
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA × Fail

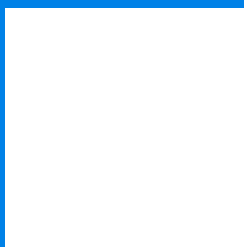
If you want to check with other color combinations, try the [Color Contrast Checker](#).

XYZ 22.2741, 21.4700, 78.5715

Background



This preview shows how black text looks on a background with the XYZ color 22.2741, 21.4700, 78.5715.



This preview shows how white text looks on a background with the XYZ color 22.2741, 21.4700,

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

22.2741, 21.4700, 78.5715

Protanopia

24.1596, 21.5686, 74.8413

Deuteranopia

21.9931, 21.3577, 77.0920



Tritanopia

15.1108, 21.2841, 32.5900

Trichromacy



Original Color

22.2741, 21.4700, 78.5715

Protanomaly

22.7798, 21.2013, 76.2904

Deuteranomaly

22.1332, 21.4137, 77.8296

Tritanomaly

17.1839, 21.1866, 46.3638

Monochromacy



Original Color

22.2741, 21.4700, 78.5715

Achromatopsia

12.6291, 13.2868, 14.4694

Achromatomaly

13.3990, 14.8821, 30.6001

CSS Examples

Text

The CSS property to change the color of the text to XYZ 22.2741, 21.4700, 78.5715 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, 231)` looks like.

```
.text, #text, p{  
    color:rgb(0, 129, 231)  
}
```

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, 231) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(0, 129, 231) }
```

Border

The CSS property to change the border of an element to XYZ 22.2741, 21.4700, 78.5715 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, 231) }
```


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

```
.border{ border-color:rgb(0, 129, 231) }
```

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, 231)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(0, 129, 231); -webkit-box-  
shadow:4px 4px 4px 4px rgb(0, 129, 231);  
box-shadow:4px 4px 4px 4px rgb(0, 129,  
231) }
```

Background

The CSS property to change the background color of an element to XYZ 22.2741, 21.4700, 78.5715 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, 231) }
```

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

```
.background{ background-color: rgb(0, 129,  
231) }
```

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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