

Converting Colors

XYZ(20.3640, 15.4812, 79.0045)

Have a look what the booklet for
XYZ(20.3640, 15.4812, 79.0045)
contains.

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Color

**XYZ(20.3421, 15.4112,
78.9933)**

Conversions

Conversions Part 1

Format	Color
Hex	2F63E9
RGB	47, 99, 233
RGB Percent	18%, 39%, 91%
CMY	0.8156, 0.6118, 0.0863
CMYK	0.80, 0.58, 0.00, 0.09
HSL	223°, 81%, 55%
HSV	223°, 80%, 91%
XYZ	20.3421, 15.4112, 78.9933
YIQ	98.7280, -74.0060, 30.6500

Conversions

Conversions Part 2

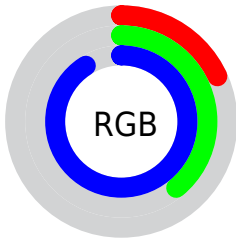
Format	Color
R _Y B	47, 88, 233
Decimal	3105769
CIE Lab	46.19, 31.01, -72.48
CIE LCh	46, 78.838, 293.163
Yxy	15.4112, 0.1773, 0.1343
Android (android.graphics.Color)	4281295849 (0xFF2F63E9)
YUV	98.7280, 66.1961, -45.3655
Hunter-Lab	39.2571, 23.7945, -91.8236

Details

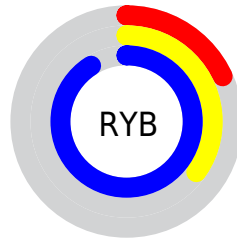
The XYZ color **20.3421, 15.4112, 78.9933** is a dark color, and the websafe version is hex **0066FF**. The color can be described as dark washed azure. A complement of this color would be **50.6453, 50.5839, 9.7855**, and the grayscale version is **11.6453, 12.2518, 13.3422**.

A 20% lighter version of the original color is **36.8235, 32.8525, 99.0081**, and **9.1556, 5.7729, 41.7060** is the 20% darker color. If you saturate the color by 10%, you get **18.1113, 12.1406, 78.4800**, and if you desaturate by 10%, it is **23.4776, 19.6389, 79.6445**.

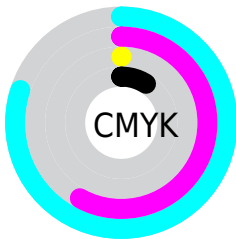
Distribution



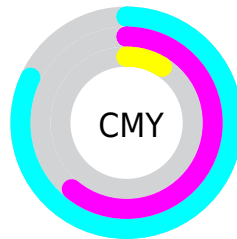
- Red (18%)
- Green (39%)
- Blue (91%)



- Red (18%)
- Yellow (35%)
- Blue (91%)



- Cyan (80%)
- Magenta (58%)
- Yellow (0%)
- Black (9%)



- Cyan (82%)
- Magenta (61%)
- Yellow (9%)

Brightness & Saturation Gradients

These gradients show how the XYZ color 20.3421, 15.4112, 78.9933 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 20.3421, 15.4112, 78.9933 by changing the saturation by 10% instead.

■ 20.3421, 15.4112,
78.9933

■ 20.3421, 15.4112,
78.9933

246.5596,
225.8418, 511.1507

■ 12.7537, 9.1085,
58.3690

■ 43.4896, 35.5729,
133.7480

■ 7.3350, 4.8120,
41.6887

■ 59.7793, 50.2008,
168.7155

■ 3.7206, 2.1374,
28.5339

■ 79.7002, 68.3724,
209.3012

■ 1.5453, 0.6855,
18.4860

■ 103.6177, 90.4723,
255.9235

■ 0.3564, 0.0000,
11.1264

■ 131.8970,
116.8847, 309.0011

■ 0.0000, 0.0000,
6.0367

164.9035,

■ 0.0000, 0.0000,

147.9942, 368.9525

2.7982

203.0025,
184.1851, 436.1962

■ 0.0000, 0.0000,
0.9926

■ 0.0000, 0.0000,
0.0000

■ 20.3421, 15.4112,
78.9933

■ 20.3421, 15.4112,
78.9933

■ 18.1113, 12.1406,
78.4800

■ 23.4776, 19.6389,
79.6445

■ 16.6280, 9.7154,
78.0901

■ 27.6144, 24.9016,
80.4423

■ 16.6055, 9.6781,
78.0841

■ 32.8379, 31.2691,
81.3960

■ 39.2234, 38.8046,
82.5139

■ 46.8390, 47.5657,
83.8036

■ 55.7475, 57.6064,
85.2721

■ 66.0072, 68.9770,
86.9261

■ 77.6727, 81.7253,
88.7720

■ 90.1611, 95.5693,
90.7859

Harmonies

Analogous

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



13.1627, 15.4112, 86.8836



20.3421, 15.4112, 78.9933



27.6167, 15.4112, 50.1888

Triad

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



20.3421, 15.4112, 78.9933



23.8425, 15.4112, 1.1698



5.1984, 15.4112, 12.7486

Complementary

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



20.3421, 15.4112, 78.9933



50.6453, 50.5839, 9.7855

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.



6.5482, 15.4112, 2.9343



20.3421, 15.4112, 78.9933



16.2408, 15.4112, 0.0954

Square

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



20.3421, 15.4112, 78.9933



30.0318, 15.4112, 6.0260



10.1298, 15.4112, 0.5006



5.6893, 15.4112, 35.9552

Rectangle

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



20.3421, 15.4112, 78.9933



30.8260, 15.4112, 29.9456



10.1298, 15.4112, 0.5006



5.4335, 15.4112, 8.1807

Sweetspot

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



20.3429, 15.4116, 78.9937



63.5177, 65.2045, 103.8457



38.5815, 62.1906, 53.3137



12.7712, 13.0256, 22.0910



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.



20.3429, 15.4116, 78.9937



20.9465, 12.8235, 95.9789



19.6850, 9.9589, 77.9759



14.5739, 15.2343, 19.0946



9.5122, 5.6714, 44.3363



0.8257, 0.6029, 3.5077

Inverse Universe

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



36.8737, 20.2589, 13.7712



42.7483, 22.0405, 9.3264



51.5694, 69.7821, 13.4424



15.2385, 15.1233, 16.5412



19.6566, 10.0653, 3.9932



1.5833, 0.8063, 0.5229

Previews

White Background



This preview shows how the XYZ color 20.3421, 15.4112, 78.9933 looks on a white background.

Color Contrast Check

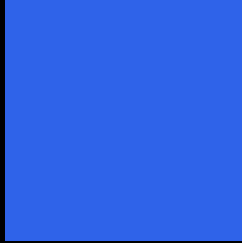
Large Text (above 18pt) WCAG AA ✓ Pass

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 20.3421, 15.4112, 78.9933 looks on a black background.

Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA × Fail

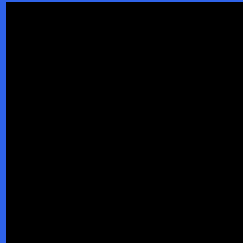
Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail

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

XYZ 20.3421, 15.4112, 78.9933

Background



This preview shows how black text looks on a background with the XYZ color 20.3421, 15.4112, 78.9933.



This preview shows how white text looks on a background with the XYZ color 20.3421, 15.4112,

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

20.3421, 15.4112, 78.9933

Protanopia

18.2364, 15.3771, 71.1142

Deuteranopia

15.0884, 15.1305, 51.4154



Tritanopia

10.7337, 15.2333, 22.7967

Trichromacy



Original Color

20.3421, 15.4112, 78.9933

Protanomaly

18.8089, 15.3107, 73.9154

Deuteranomaly

16.6294, 15.0908, 60.4289

Tritanomaly

13.0192, 14.6826, 38.2242

Monochromacy



Original Color

20.3421, 15.4112, 78.9933

Achromatopsia

11.8596, 12.4772, 13.5877

Achromatomaly

13.1154, 12.7673, 29.7900

CSS Examples

Text

The CSS property to change the color of the text to XYZ 20.3421, 15.4112, 78.9933 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(47, 99, 233)` looks like.

```
.text, #text, p{  
  color:rgb(47, 99, 233)  
}
```

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(47, 99, 233) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(47, 99, 233) }
```

Border

The CSS property to change the border of an element to XYZ 20.3421, 15.4112, 78.9933 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(47, 99, 233) }
```


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

```
.border{ border-color:rgb(47, 99, 233) }
```

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

Here you see how a box with a 4 pixel `rgb(47, 99, 233)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(47, 99, 233); -webkit-box-  
shadow:4px 4px 4px 4px rgb(47, 99, 233);  
box-shadow:4px 4px 4px 4px rgb(47, 99,  
233) }
```

Background

The CSS property to change the background color of an element to XYZ 20.3421, 15.4112, 78.9933 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(47, 99, 233) }
```

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

```
.background{ background-color: rgb(47, 99,  
233) }
```

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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