

Converting Colors

XYZ(18.9282, 12.4371, 81.8331)

Have a look what the booklet for
XYZ(18.9282, 12.4371, 81.8331)
contains.

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Color

**XYZ(18.8990, 12.4561,
81.5289)**

Conversions

Conversions Part 1

Format	Color
Hex	2052ED
RGB	32, 82, 237
RGB Percent	13%, 32%, 93%
CMY	0.8744, 0.6784, 0.0706
CMYK	0.86, 0.65, 0.00, 0.07
HSL	225°, 85%, 53%
HSV	225°, 86%, 93%
XYZ	18.8990, 12.4561, 81.5289
YIQ	84.7200, -79.5550, 37.6050

Conversions

Conversions Part 2

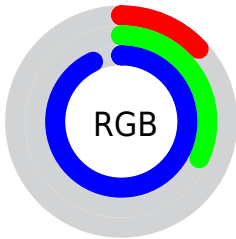
Format	Color
R _Y B	32, 72, 237
Decimal	2118381
CIE Lab	41.93, 42.13, -81.73
CIE LCh	42, 91.949, 297.269
Yxy	12.4561, 0.1674, 0.1103
Android (android.graphics.Color)	4280308461 (0xFF2052ED)
YUV	84.7200, 75.0740, -46.2354
Hunter-Lab	35.2932, 33.8211, -112.2574

Details

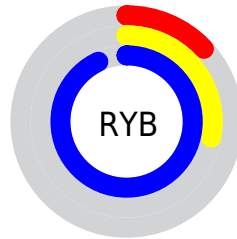
The XYZ color **18.8990, 12.4561, 81.5289** is a dark color, and the websafe version is hex **3366FF**. The color can be described as dark washed blue. A complement of this color would be **52.9622, 53.6610, 8.9345**, and the grayscale version is **8.4384, 8.8779, 9.6680**.

A 20% lighter version of the original color is **33.6375, 27.3042, 98.1051**, and **8.9313, 4.6815, 43.6129** is the 20% darker color. If you saturate the color by 10%, you get **17.2281, 9.8436, 81.1131**, and if you desaturate by 10%, it is **21.4513, 16.0464, 82.0878**.

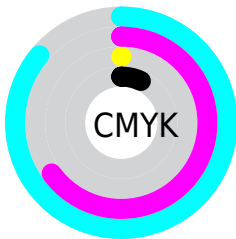
Distribution



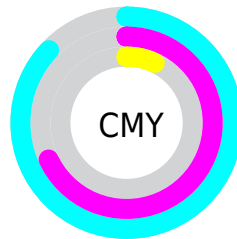
- Red (13%)
- Green (32%)
- Blue (93%)



- Red (13%)
- Yellow (28%)
- Blue (93%)



- Cyan (86%)
- Magenta (65%)
- Yellow (0%)
- Black (7%)



- Cyan (87%)
- Magenta (68%)
- Yellow (7%)

Brightness & Saturation Gradients

These gradients show how the XYZ color 18.8990, 12.4561, 81.5289 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 18.8990, 12.4561, 81.5289 by changing the saturation by 10% instead.

■ 18.8990, 12.4561,
81.5289

■ 18.8990, 12.4561,
81.5289

238.8394,
207.4018, 519.9125

■ 11.7009, 7.0551,
60.4437

■ 41.0816, 30.3231,
137.3439

■ 6.6111, 3.4966,
43.3488

■ 56.7967, 43.5579,
172.9108

■ 3.2642, 1.3962,
29.8254

■ 76.0816, 60.1728,
214.1421

■ 1.2950, 0.2139,
19.4552

■ 99.3016, 80.5521,
261.4563

■ 0.1795, 0.0000,
11.8195

■ 126.8220,
105.0803, 315.2719

■ 0.0000, 0.0000,
6.4999

159.0082,

■ 0.0000, 0.0000,

134.1417, 376.0074

3.0777

196.2256,
168.1208, 444.0814

■ 0.0000, 0.0000,
1.1344

■ 0.0000, 0.0000,
0.0000

■ 18.8990, 12.4561,
81.5289

■ 18.8990, 12.4561,
81.5289

■ 17.2281, 9.8436,
81.1131

■ 21.4513, 16.0464,
82.0878

■ 16.7882, 9.1186,
80.9963

■ 25.0060, 20.7148,
82.8015

■ 29.6650, 26.5475,
83.6818

■ 35.5164, 33.6209,
84.7387

■ 42.6388, 42.0046,
85.9815

■ 51.1038, 51.7627,
87.4188

■ 60.9777, 62.9551,
89.0588

■ 72.3221, 75.6378,
90.9089

■ 85.1952, 89.8639,
92.9763

Harmonies

Analogous

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



11.2268, 12.4561, 95.9226



18.8990, 12.4561, 81.5289



26.6007, 12.4561, 45.5681

Triad

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



18.8990, 12.4561, 81.5289



20.4121, 12.4561, 0.0000



2.9913, 12.4561, 11.8549

Complementary

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



18.8990, 12.4561, 81.5289



52.9622, 53.6610, 8.9345

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.



3.8934, 12.4561, 1.7183



18.8990, 12.4561, 81.5289



12.4734, 12.4561, 0.0000

Square

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



18.8990, 12.4561, 81.5289



27.6842, 12.4561, 2.6221



6.8011, 12.4561, 0.0000



3.6039, 12.4561, 38.9790

Rectangle

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



18.8990, 12.4561, 81.5289



29.7266, 12.4561, 23.6049



6.8011, 12.4561, 0.0000



3.1156, 12.4561, 6.8695

Sweetspot

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



18.8998, 12.4563, 81.5293



60.7608, 61.5982, 103.2949



39.7178, 64.4109, 56.6580



12.2170, 12.2817, 21.9766



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.



18.8998, 12.4563, 81.5293



19.7819, 10.6838, 95.6273



19.3944, 9.0001, 80.8361



14.5294, 15.1453, 19.0798



9.2516, 5.1501, 44.2494



0.8000, 0.5514, 3.4991

Inverse Universe

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



36.9653, 19.6482, 9.8266



42.1142, 21.6097, 6.5333



50.7360, 71.0817, 12.4144



15.2160, 15.1143, 16.4230



19.5251, 10.0127, 3.3003



1.5703, 0.8011, 0.4545

Previews

White Background



This preview shows how the XYZ color 18.8990, 12.4561, 81.5289 looks on a white background.

Color Contrast Check

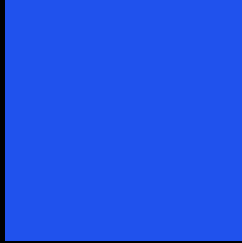
Large Text (above 18pt) WCAG AA ✓ Pass

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 18.8990, 12.4561, 81.5289 looks on a black background.

Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA × Fail

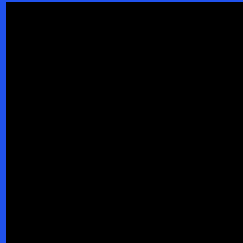
Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail

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

XYZ 18.8990, 12.4561, 81.5289

Background



This preview shows how black text looks on a background with the XYZ color 18.8990, 12.4561, 81.5289.



This preview shows how white text looks on a background with the XYZ color 18.8990, 12.4561,

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

18.8990, 12.4561, 81.5289

Protanopia

14.5175, 12.3545, 56.2631

Deuteranopia

12.0044, 12.2476, 40.2594



Tritanopia

8.5632, 12.1751, 18.1184

Trichromacy



Original Color

18.8990, 12.4561, 81.5289

Protanomaly

15.8180, 12.1946, 64.4709

Deuteranomaly

14.0046, 12.0237, 53.2124

Tritanomaly

10.8715, 11.5050, 34.4486

Monochromacy



Original Color

18.8990, 12.4561, 81.5289

Achromatopsia

8.6345, 9.0842, 9.8927

Achromatomaly

10.1507, 9.3923, 26.0888

CSS Examples

Text

The CSS property to change the color of the text to XYZ 18.8990, 12.4561, 81.5289 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(32, 82, 237)` looks like.

```
.text, #text, p{  
    color:rgb(32, 82, 237)  
}
```

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(32, 82, 237) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(32, 82, 237) }
```

Border

The CSS property to change the border of an element to XYZ 18.8990, 12.4561, 81.5289 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(32, 82, 237) }
```


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

```
.border{ border-color:rgb(32, 82, 237) }
```

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

Here you see how a box with a 4 pixel rgb(32, 82, 237) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(32, 82, 237); -webkit-box-  
shadow:4px 4px 4px 4px rgb(32, 82, 237);  
box-shadow:4px 4px 4px 4px rgb(32, 82,  
237) }
```

Background

The CSS property to change the background color of an element to XYZ 18.8990, 12.4561, 81.5289 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(32, 82, 237) }
```

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

```
.background{ background-color: rgb(32, 82,  
237) }
```

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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