

Converting Colors

XYZ(18.7740, 13.7901, 78.7630)

Have a look what the booklet for
XYZ(18.7740, 13.7901, 78.7630)
contains.

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Color

**XYZ(18.7740, 13.7901,
78.7630)**

Conversions

Conversions Part 1

Format	Color
Hex	0C5DE9
RGB	12, 93, 233
RGB Percent	5%, 36%, 91%
CMY	0.9527, 0.6353, 0.0863
CMYK	0.95, 0.60, 0.00, 0.09
HSL	218°, 90%, 48%
HSV	218°, 95%, 91%
XYZ	18.7740, 13.7901, 78.7630
YIQ	84.7410, -93.2160, 26.3680

Conversions

Conversions Part 2

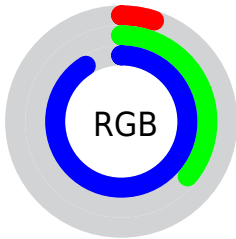
Format	Color
R_{YB}	12, 71, 233
Decimal	810473
CIE _{Lab}	43.93, 32.87, -76.21
CIE _{LCh}	44, 82.994, 293.331
Yxy	13.7901, 0.1686, 0.1239
Android (android.graphics.Color)	4279000553 (0xFF0C5DE9)
YUV	84.7410, 73.0917, -63.7939
Hunter-Lab	37.1350, 25.2563, -99.7590

Details

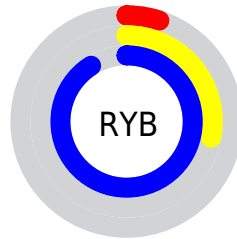
The XYZ color **18.7740, 13.7901, 78.7630** is a dark color, and the websafe version is hex **0066FF**. The color can be described as dark washed blue. A complement of this color would be **44.9091, 39.8264, 5.6700**, and the grayscale version is **8.4509, 8.8910, 9.6823**.

A 20% lighter version of the original color is **34.3029, 30.1799, 98.6251**, and **8.9348, 5.3312, 41.6324** is the 20% darker color. If you saturate the color by 10%, you get **17.9848, 12.4368, 78.5438**, and if you desaturate by 10%, it is **20.7511, 16.9222, 79.2637**.

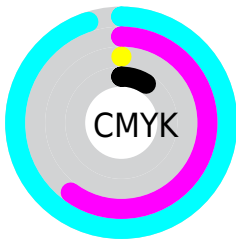
Distribution



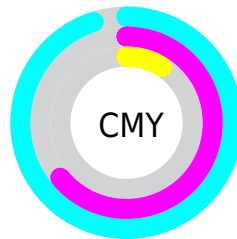
- Red (5%)
- Green (36%)
- Blue (91%)



- Red (5%)
- Yellow (28%)
- Blue (91%)



- Cyan (95%)
- Magenta (60%)
- Yellow (0%)
- Black (9%)



- Cyan (95%)
- Magenta (64%)
- Yellow (9%)

Brightness & Saturation Gradients

These gradients show how the XYZ color 18.7740, 13.7901, 78.7630 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 18.7740, 13.7901, 78.7630 by changing the saturation by 10% instead.

■ 18.7740, 13.7901,
78.7630

■ 18.7740, 13.7901,
78.7630

238.1604,
215.9211, 510.3506

■ 11.6101, 7.9748,
58.1808

■ 40.8717, 32.7161,
133.4208

■ 6.5491, 4.0788,
41.5384

■ 56.5362, 46.5957,
168.3335

■ 3.2255, 1.7178,
28.4171

■ 75.7650, 63.9321,
208.8601

■ 1.2741, 0.4351,
18.3986

■ 98.9234, 85.1098,
255.4191

■ 0.1637, 0.0000,
11.0641

■ 126.3768,
110.5131, 308.4292

■ 0.0000, 0.0000,
5.9953

158.4905,

■ 0.0000, 0.0000,

140.5265, 368.3087

2.7735

195.6299,
175.5344, 435.4764

■ 0.0000, 0.0000,
0.9802

■ 0.0000, 0.0000,
0.0000

■ 18.7740, 13.7901,
78.7630

■ 18.7740, 13.7901,
78.7630

■ 17.9848, 12.4368,
78.5438

■ 20.7511, 16.9222,
79.2637

■ 23.5161, 20.8517,
79.8765

■ 27.1714, 25.6497,
80.6099

■ 31.8016, 31.3769,
81.4714

■ 37.4803, 38.0876,
82.4674

■ 44.2736, 45.8311,
83.6040

■ 52.2417, 54.6531,
84.8868

■ 61.4404, 64.5963,
86.3212

■ 71.9216, 75.7009,
87.9122

Harmonies

Analogous

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



11.6940, 13.7901, 87.2427



18.7740, 13.7901, 78.7630



26.0758, 13.7901, 48.6427

Triad

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



18.7740, 13.7901, 78.7630



22.1916, 13.7901, 0.6413



4.1375, 13.7901, 11.1931

Complementary

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



18.7740, 13.7901, 78.7630



44.9091, 39.8264, 5.6700

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.



5.3610, 13.7901, 2.1153



18.7740, 13.7901, 78.7630



14.6296, 13.7901, 0.0000

Square

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



18.7740, 13.7901, 78.7630



28.4660, 13.7901, 4.7608



8.7134, 13.7901, 0.0000



4.5925, 13.7901, 34.3856

Rectangle

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



18.7740, 13.7901, 78.7630



29.3164, 13.7901, 27.9677



8.7134, 13.7901, 0.0000



4.3475, 13.7901, 6.8444

Sweetspot

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



18.7748, 13.7904, 78.7634



60.7081, 63.3343, 103.6328



34.9580, 60.6233, 39.5598



12.0932, 12.5574, 22.0364



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.



18.7748, 13.7904, 78.7634



22.0011, 15.1222, 96.3670



15.7755, 6.6297, 77.5393



14.6831, 15.4525, 19.1310



10.3130, 7.2729, 44.6032



0.8988, 0.7491, 3.5321

Inverse Universe

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



35.7124, 18.3784, 12.0209



43.2343, 22.0577, 12.4320



53.9821, 71.0775, 11.2239



15.2936, 15.1453, 16.8312



20.0608, 10.2270, 6.1215



1.6202, 0.8210, 0.7172

Previews

White Background



This preview shows how the XYZ color 18.7740, 13.7901, 78.7630 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 18.7740, 13.7901, 78.7630 looks on a black background.

Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA × Fail

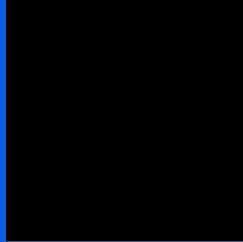
Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail

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

XYZ 18.7740, 13.7901, 78.7630

Background



This preview shows how black text looks on a background with the XYZ color 18.7740, 13.7901, 78.7630.



This preview shows how white text looks on a background with the XYZ color 18.7740, 13.7901,

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

18.7740, 13.7901, 78.7630

Protanopia

16.0947, 13.5768, 62.7451

Deuteranopia

13.3923, 13.6034, 45.0999



Tritanopia

9.5819, 13.6419, 20.2173

Trichromacy



Original Color

18.7740, 13.7901, 78.7630

Protanomaly

16.9797, 13.6372, 68.0670

Deuteranomaly

15.0126, 13.4567, 55.8390

Tritanomaly

11.8294, 13.1498, 36.0971

Monochromacy



Original Color

18.7740, 13.7901, 78.7630

Achromatopsia

8.6345, 9.0842, 9.8927

Achromatomaly

9.8948, 9.7431, 25.7852

CSS Examples

Text

The CSS property to change the color of the text to XYZ 18.7740, 13.7901, 78.7630 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(12, 93, 233)` looks like.

```
.text, #text, p{  
    color:rgb(12, 93, 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(12, 93, 233) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(12, 93, 233) }
```

Border

The CSS property to change the border of an element to XYZ 18.7740, 13.7901, 78.7630 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(12, 93, 233) }
```


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

```
.border{ border-color:rgb(12, 93, 233) }
```

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

Here you see how a box with a 4 pixel `rgb(12, 93, 233)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(12, 93, 233); -webkit-box-  
shadow:4px 4px 4px 4px rgb(12, 93, 233);  
box-shadow:4px 4px 4px 4px rgb(12, 93,  
233) }
```

Background

The CSS property to change the background color of an element to XYZ 18.7740, 13.7901, 78.7630 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(12, 93, 233) }
```

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

```
.background{ background-color: rgb(12, 93,  
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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