

Converting Colors

XYZ(87.1859, 100.0000,
18.8962)

Have a look what the booklet for
XYZ(87.1859, 100.0000, 18.8962)
contains.

XYZ(77.7894, 93.0958, 18.0070)	3
<i>Conversions</i>	4
<i>Details</i>	6
<i>Harmonies</i>	12
<i>Previews</i>	24
<i>Color Blindness Simulation</i>	28
<i>CSS Examples</i>	31

Color

**XYZ(77.7894, 93.0958,
18.0070)**

Conversions

Conversions Part 1

Format	Color
Hex	FFFF3B
RGB	255, 255, 59
RGB Percent	100%, 100%, 23%
CMY	0.0000, 0.0000, 0.7686
CMYK	0.00, 0.00, 0.77, 0.00
HSL	60°, 100%, 62%
HSV	60°, 77%, 100%
XYZ	77.7894, 93.0958, 18.0070
YIQ	232.6560, 62.9160, -60.9560

Conversions

Conversions Part 2

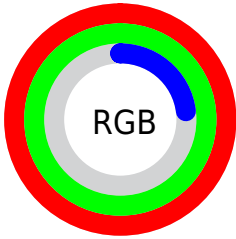
Format	Color
R _Y B	59, 255, 59
Decimal	16777019
CIE Lab	97.27, -20.52, 85.51
CIE LCh	97, 87.935, 103.495
Yxy	93.0958, 0.4118, 0.4929
Android (android.graphics.Color)	4294967099 (0xFFFFFFFF3B)
YUV	232.6560, -85.6124, 19.5957
Hunter-Lab	96.4862, -24.9399, 56.4752

Details

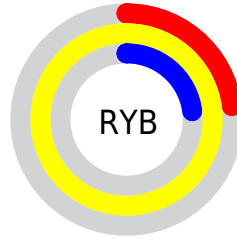
The XYZ color **77.7894, 93.0958, 18.0070** is a light color, and the websafe version is hex **FFFF33**. The color can be described as light washed yellow. A complement of this color would be **21.4186, 11.2789, 95.6559**, and the grayscale version is **77.7832, 81.8340, 89.1172**.

A 20% lighter version of the original color is **80.5129, 94.1851, 32.3484**, and **42.6716, 52.3162, 7.8490** is the 20% darker color. If you saturate the color by 10%, you get **77.2813, 92.8925, 15.3334**, and if you desaturate by 10%, it is **78.6199, 93.4279, 22.3820**.

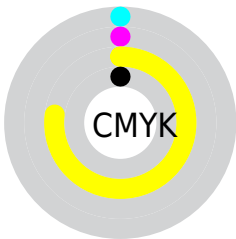
Distribution



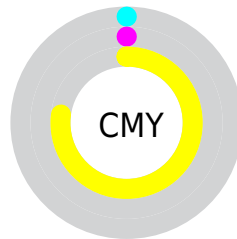
- Red (100%)
- Green (100%)
- Blue (23%)



- Red (23%)
- Yellow (100%)
- Blue (23%)



- Cyan (0%)
- Magenta (0%)
- Yellow (77%)
- Black (0%)





- Cyan (0%)
- Magenta (0%)
- Yellow (77%)

Brightness & Saturation Gradients


These gradients show how the XYZ color 77.7894, 93.0958, 18.0070 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 77.7894, 93.0958, 18.0070 by changing the saturation by 10% instead.


 77.7894, 93.0958,
18.0070


 77.7894, 93.0958,
18.0070


476.3021,
538.0508, 253.1479


 58.2032, 70.5511,
10.7855


 129.2201,
151.6312, 40.8634


 42.2159, 51.9760,
5.8104


 161.7954,
188.3908, 57.3353


 29.4622, 36.9859,
2.6632


 199.4310,
230.6574, 77.7278

 19.5768, 25.1966,
0.9248

 242.4923,
278.8156, 102.4595

 12.1943, 16.2236,
0.0000

 291.3447,
333.2496, 131.9488

 6.9493, 9.6825,
0.0000

346.3536,

 3.4764, 5.1890,

394.3438, 166.6142

0.0000

407.8843,
462.4828, 206.8745

■ 1.4104, 2.3586,
0.0000

■ 0.2636, 0.8044,
0.0000

■ 77.7894, 93.0958,
18.0070

■ 77.7894, 93.0958,
18.0070

■ 77.2813, 92.8925,
15.3334

■ 78.6199, 93.4279,
22.3820

■ 77.0434, 92.7973,
14.0810

■ 79.8147, 93.9058,
28.6732

■ 76.9996, 92.7798,
13.8500

■ 81.4089, 94.5435,
37.0679

■ 83.4336, 95.3534,
47.7298

85.9170, 96.3468,
60.8068

88.8847, 97.5339,
76.4342

92.3605, 98.9242,
94.7372

95.0500, 100.0000,
108.9000

Harmonies

Analogous

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



102.7747, 93.0958, 18.6016



77.7894, 93.0958, 18.0070



59.4871, 93.0958, 30.9466

Triad

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



77.7894, 93.0958, 18.0070



58.1350, 93.0958, 227.8423



142.6992, 93.0958, 145.4548

Complementary

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



77.7894, 93.0958, 18.0070



21.4186, 11.2789, 95.6559

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.



125.6420, 93.0958, 236.6789



77.7894, 93.0958, 18.0070



75.5849, 93.0958, 297.4922

Square

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



77.7894, 93.0958, 18.0070



49.6601, 93.0958, 136.7961



100.1181, 93.0958, 301.3235



143.5947, 93.0958, 72.6507

Rectangle

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



77.7894, 93.0958, 18.0070



52.2238, 93.0958, 51.7147



100.1181, 93.0958, 301.3235



138.5388, 93.0958, 175.5753

Sweetspot

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



77.7893, 93.0957, 18.0082



87.0036, 96.7814, 66.5288



43.5940, 24.7047, 6.6096



18.4042, 20.6279, 13.0910



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.



77.7893, 93.0957, 18.0082



77.1295, 92.8317, 14.5338



50.4551, 79.0044, 16.7289



19.5613, 21.0908, 19.1843



40.2339, 48.4794, 7.2369



3.9174, 4.7203, 0.7046

Inverse Universe

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



21.4186, 11.2789, 95.6559



18.6040, 7.8875, 95.1496



33.5199, 17.5173, 96.2222



17.0031, 17.3778, 22.7080



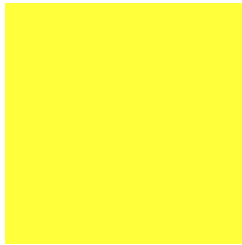
9.4315, 3.7726, 49.6657



0.9183, 0.3673, 4.8358

Previews

White Background



This preview shows how the XYZ color 77.7894, 93.0958, 18.0070 looks on a white background.

Color Contrast Check

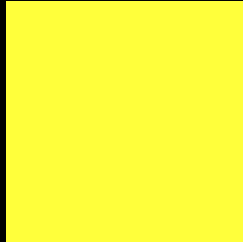
Large Text (above 18pt) WCAG AA × Fail

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 77.7894, 93.0958, 18.0070 looks on a black background.

Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

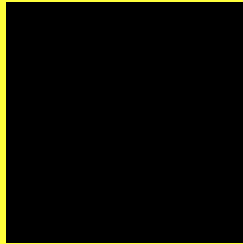
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

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

XYZ 77.7894, 93.0958, 18.0070

Background



This preview shows how black text looks on a background with the XYZ color 77.7894, 93.0958, 18.0070.



This preview shows how white text looks on a background with the XYZ color 77.7894, 93.0958,

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



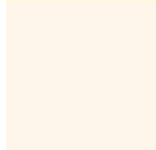
Original Color

77.7894, 93.0958, 18.0070



Protanopia

87.1557, 92.8435, 79.6567



Deuteranopia

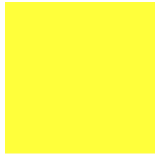
89.1912, 93.1697, 91.8799



Tritanopia

90.8460, 92.8635, 103.5788

Trichromacy



Original Color

77.7894, 93.0958, 18.0070



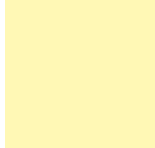
Protanomaly

81.7708, 92.1693, 46.7384



Deuteranomaly

82.4664, 91.9516, 51.9301



Tritanomaly

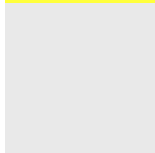
83.1479, 91.7310, 57.0396

Monochromacy



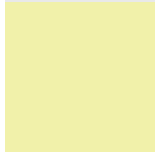
Original Color

77.7894, 93.0958, 18.0070



Achromatopsia

77.4512, 81.4847, 88.7368



Achromatomaly

74.9866, 84.5136, 50.3908

CSS Examples

Text

The CSS property to change the color of the text to XYZ 77.7894, 93.0958, 18.0070 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(255, 255, 59)` looks like.

```
.text, #text, p{  
    color:rgb(255, 255, 59)  
}
```

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(255, 255, 59) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(255, 255, 59) }
```

Border

The CSS property to change the border of an element to XYZ 77.7894, 93.0958, 18.0070 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(255, 255, 59) }
```


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

```
.border{ border-color:rgb(255, 255, 59) }
```

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

Here you see how a box with a 4 pixel `rgb(255, 255, 59)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(255, 255, 59); -webkit-box-  
shadow:4px 4px 4px 4px rgb(255, 255, 59);  
box-shadow:4px 4px 4px 4px rgb(255, 255,  
59) }
```

Background

The CSS property to change the background color of an element to XYZ 77.7894, 93.0958, 18.0070 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(255, 255, 59) }
```

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

```
.background{ background-color: rgb(255,  
255, 59) }
```

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](#).

Hey! You found this booklet interesting? Support Converting Colors with the new Membership Option!

The pro membership hides all ads, plus gives you double the colors in the color bucket, and more awesome pro features!

[Learn more, Memberships starting at \\$2.50/m!](#)

**Follow me
on Twitter!**

@ConvertingColor