

# Converting Colors

XYZ(78.1512, 93.2405, 19.9121)

Have a look what the booklet for  
XYZ(78.1512, 93.2405, 19.9121)  
contains.

|  |    |
|--|----|
| <b>XYZ(78.1373, 93.2349, 19.8391)</b> .....    | 3  |
| <b><i>Conversions</i></b> .....                | 4  |
| <b><i>Details</i></b> .....                    | 6  |
| <b><i>Harmonies</i></b> .....                  | 12 |
| <b><i>Previews</i></b> .....                   | 24 |
| <b><i>Color Blindness Simulation</i></b> ..... | 28 |
| <b><i>CSS Examples</i></b> .....               | 31 |

# Color

**XYZ(78.1373, 93.2349,  
19.8391)**

# Conversions

## Conversions Part 1

| Format      | Color                       |
|-------------|-----------------------------|
| Hex         | FFFF47                      |
| RGB         | 255, 255, 71                |
| RGB Percent | 100%, 100%, 28%             |
| CMY         | 0.0000, 0.0000, 0.7215      |
| CMYK        | 0.00, 0.00, 0.72, 0.00      |
| HSL         | 60°, 100%, 64%              |
| HSV         | 60°, 72%, 100%              |
| XYZ         | 78.1373, 93.2349, 19.8391   |
| YIQ         | 234.0240, 59.0640, -57.2240 |

# Conversions

## Conversions Part 2

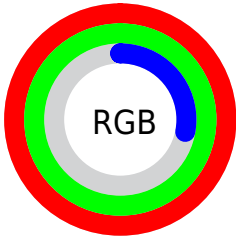
| <b>Format</b>                       | <b>Color</b>                   |
|-------------------------------------|--------------------------------|
| <b>R<sub>YB</sub></b>               | 71, 255, 71                    |
| Decimal                             | 16777031                       |
| CIE Lab                             | 97.32, -20.07, 82.00           |
| CIE LCh                             | 97, 84.420, 103.752            |
| Yxy                                 | 93.2349, 0.4086,<br>0.4876     |
| Android<br>(android.graphics.Color) | 4294967111<br>(0xFFFFFFFF47)   |
| YUV                                 | 234.0240, -80.3708,<br>18.3960 |
| Hunter-Lab                          | 96.5582, -24.5303,<br>55.4089  |

# Details

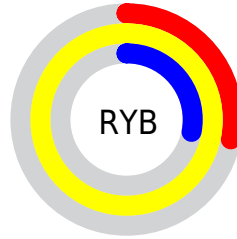
The XYZ color **78.1373, 93.2349, 19.8391** is a light color, and the websafe version is hex **FFFF33**. The color can be described as light washed yellow. A complement of this color would be **22.9028, 13.0673, 95.9229**, and the grayscale version is **78.7826, 82.8854, 90.2622**.

A 20% lighter version of the original color is **81.0967, 94.4187, 35.4231**, and **42.6716, 52.3162, 7.8490** is the 20% darker color. If you saturate the color by 10%, you get **77.4831, 92.9732, 16.3959**, and if you desaturate by 10%, it is **79.1345, 93.6338, 25.0914**.

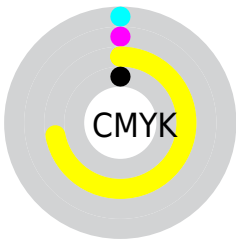
# Distribution



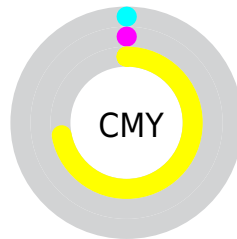
- Red (100%)
- Green (100%)
- Blue (28%)



- Red (28%)
- Yellow (100%)
- Blue (28%)



- Cyan (0%)
- Magenta (0%)
- Yellow (72%)
- Black (0%)




- Cyan (0%)
- Magenta (0%)
- Yellow (72%)


# Brightness & Saturation Gradients

These gradients show how the XYZ color 78.1373, 93.2349, 19.8391 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 78.1373, 93.2349, 19.8391 by changing the saturation by 10% instead.





 78.1373, 93.2349,  
19.8391


 78.1373, 93.2349,  
19.8391


477.4657,  
538.4986, 263.6181


 58.4899, 70.6668,  
12.0952


 129.7080,  
151.8238, 44.0027


 42.4475, 52.0703,  
6.6852


 162.3621,  
188.6133, 61.2595


 29.6445, 37.0611,  
3.1906


 200.0824,  
230.9121, 82.5243

 19.7156, 25.2548,  
1.1928

 243.2344,  
279.1045, 108.2157

 12.2955, 16.2670,  
0.0000

 292.1833,  
333.5750, 138.7523

 7.0189, 9.7133,  
0.0000

347.2946,

 3.5204, 5.2093,

394.7079, 174.5525

0.0000

408.9336,  
462.8877, 216.0349

■ 1.4345, 2.3706,  
0.0000

■ 0.2806, 0.8107,  
0.0000

■ 78.1373, 93.2349,  
19.8391

■ 78.1373, 93.2349,  
19.8391

■ 77.4831, 92.9732,  
16.3959

■ 79.1345, 93.6338,  
25.0914


■ 77.1259, 92.8303,  
14.5152


■ 80.5131, 94.1852,  
32.3507


■ 76.9996, 92.7798,  
13.8500

■ 82.3062, 94.9024,  
41.7928

■ 84.5434, 95.7973,  
53.5736

 87.2516, 96.8806,  
67.8344

 90.4555, 98.1622,  
84.7057

 94.1781, 99.6512,  
104.3086

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.



102.1046, 93.2349, 20.3430



78.1373, 93.2349, 19.8391



60.4893, 93.2349, 33.0448

# Triad

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



78.1373, 93.2349, 19.8391



59.3986, 93.2349, 222.4127



140.4528, 93.2349, 142.9660

# Complementary

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



78.1373, 93.2349, 19.8391



22.9028, 13.0673, 95.9229

# 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.



124.3397, 93.2349, 229.3217



78.1373, 93.2349, 19.8391



76.3727, 93.2349, 287.5005

# Square

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



78.1373, 93.2349, 19.8391



51.0601, 93.2349, 136.1203



99.9941, 93.2349, 290.4811



141.1583, 93.2349, 73.3393



# Rectangle

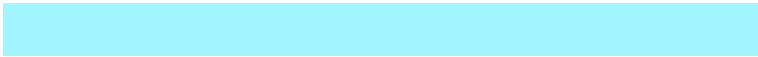
The Rectangle color scheme consists of four colors that form a rectangle on the color wheel.



78.1373, 93.2349, 19.8391



53.4656, 93.2349, 53.7328



99.9941, 93.2349, 290.4811



136.5439, 93.2349, 171.5427

# Sweetspot

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



78.1373, 93.2349, 19.8403



87.2971, 96.8988, 68.0743



44.6312, 26.2224, 8.6715



18.5173, 20.6732, 13.6866



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.



78.1373, 93.2349, 19.8403



77.2763, 92.8905, 15.3066



52.0025, 79.7619, 18.6172



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.



22.9028, 13.0673, 95.9229



19.2301, 8.6419, 95.2623



35.4087, 19.5143, 96.5081



17.0031, 17.3778, 22.7080



9.4315, 3.7726, 49.6657

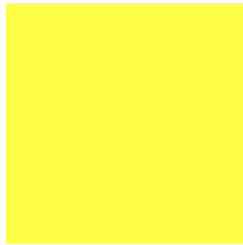


0.9183, 0.3673, 4.8358



# Previews

## White Background



This preview shows how the XYZ color 78.1373, 93.2349, 19.8391 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

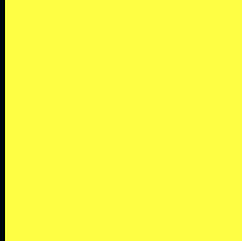
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the XYZ color 78.1373, 93.2349, 19.8391 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 78.1373, 93.2349, 19.8391

## Background



This preview shows how black text looks on a background with the XYZ color 78.1373, 93.2349, 19.8391.



This preview shows how white text looks on a background with the XYZ color 78.1373, 93.2349,



# 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



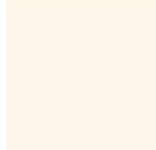
### Original Color

78.1373, 93.2349, 19.8391



### Protanopia

87.2869, 92.8960, 80.3480



### Deuteranopia

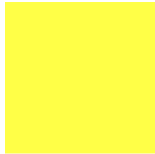
89.1912, 93.1697, 91.8799



## Tritanopia

90.8460, 92.8635, 103.5788

# Trichromacy



## Original Color

78.1373, 93.2349, 19.8391



## Protanomaly

82.2171, 92.3478, 49.0889



## Deuteranomaly

82.8535, 92.1065, 53.9689



## Tritanomaly

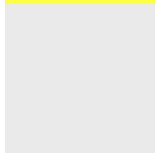
83.5644, 91.8976, 59.2326

# Monochromacy



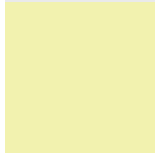
## Original Color

78.1373, 93.2349, 19.8391



## Achromatopsia

78.2058, 82.2786, 89.6014



## Achromatomaly

76.1079, 85.4767, 53.0448

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 78.1373, 93.2349, 19.8391 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, 71)` looks like.

```
.text, #text, p{  
    color:rgb(255, 255, 71)  
}
```

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, 71) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(255, 255, 71) }
```

## Border

The CSS property to change the border of an element to XYZ 78.1373, 93.2349, 19.8391 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, 71) }
```



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

```
.border{ border-color:rgb(255, 255, 71) }
```

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, 71)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(255, 255, 71); -webkit-box-  
shadow:4px 4px 4px 4px rgb(255, 255, 71);  
box-shadow:4px 4px 4px 4px rgb(255, 255,  
71) }
```

# Background

The CSS property to change the background color of an element to XYZ 78.1373, 93.2349, 19.8391 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, 71) }
```

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

```
.background{ background-color: rgb(255,  
255, 71) }
```

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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