

# Converting Colors

XYZ(31.0266, 18.9812, 7.9849)

Have a look what the booklet for  
XYZ(31.0266, 18.9812, 7.9849)  
contains.

<b>XYZ(30.9970, 19.0073, 7.9963)</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(30.9970, 19.0073,  
7.9963)**

# Conversions

## Conversions Part 1

<b>Format</b>	<b>Color</b>
Hex	D64547
RGB	214, 69, 71
RGB Percent	84%, 27%, 28%
CMY	0.1608, 0.7294, 0.7216
CMYK	0.00, 0.68, 0.67, 0.16
HSL	359°, 64%, 55%
HSV	359°, 68%, 84%
XYZ	30.9970, 19.0073, 7.9963
YIQ	112.5830, 85.7780, 31.3620

# Conversions

## Conversions Part 2

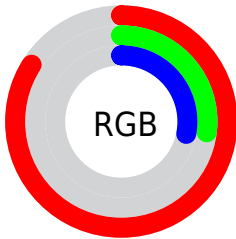
<b>Format</b>	<b>Color</b>
<a href="#">RYB</a>	<a href="#">214, 69, 71</a>
Decimal	<a href="#">14042439</a>
CIELab	<a href="#">50.70, 56.68, 31.24</a>
CIElCh	<a href="#">51, 64.719, 28.860</a>
Yxy	<a href="#">19.0073, 0.5344, 0.3277</a>
Android (android.graphics.Color)	<a href="#">4292232519</a> ( <a href="#">0xFFD64547</a> )
YUV	<a href="#">112.5830, -20.5004, 88.9427</a>
Hunter-Lab	<a href="#">43.5974, 50.6151, 19.6436</a>

# Details

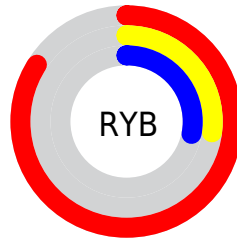
The XYZ color **30.9970, 19.0073, 7.9963** is a dark color, and the websafe version is hex **CC3333**. The color can be described as dark muted red. A complement of this color would be **38.3860, 54.1123, 70.7143**, and the grayscale version is **15.6145, 16.4277, 17.8898**.

A 20% lighter version of the original color is **51.9638, 37.2833, 22.2269**, and **13.1467, 6.7545, 1.6478** is the 20% darker color. If you saturate the color by 10%, you get **29.3459, 16.6075, 4.6646**, and if you desaturate by 10%, it is **33.3586, 22.4522, 12.7252**.

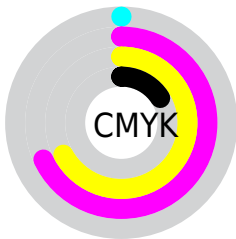
# Distribution



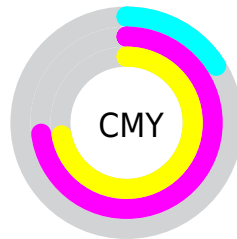
- Red (84%)
- Green (27%)
- Blue (28%)



- Red (84%)
- Yellow (27%)
- Blue (28%)



- Cyan (0%)
- Magenta (68%)
- Yellow (67%)
- Black (16%)




- Cyan (16%)
- Magenta (73%)
- Yellow (72%)


# Brightness & Saturation Gradients

These gradients show how the XYZ color 30.9970, 19.0073, 7.9963 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 30.9970, 19.0073, 7.9963 by changing the saturation by 10% instead.





 30.9970, 19.0073,  
7.9963


 30.9970, 19.0073,  
7.9963


298.3516,  
246.4891, 185.6365


 20.7484, 11.6756,  
4.0048


 60.6112, 41.7464,  
22.4972


 13.0516, 6.5232,  
1.6280


 80.7075, 57.9226,  
33.8438

 7.5413, 3.1657,  
0.3107

 104.8171, 77.8157,  
48.4791

 3.8522, 1.2189,  
0.0000

 133.3053,  
101.8102, 66.8218

 1.6189, 0.0770,  
0.0000

 166.5375,  
130.2903, 89.2903

 0.4047, 0.0000,  
0.0000

204.8791,

 0.0000, 0.0000,

163.6406, 116.3033

0.0000

248.6953,  
202.2454, 148.2792

■ 30.9970, 19.0073,  
7.9963

■ 30.9970, 19.0073,  
7.9963

■ 29.3459, 16.6075,  
4.6646

■ 33.3586, 22.4522,  
12.7252

■ 28.3246, 15.1318,  
2.5766

■ 36.4972, 27.0394,  
18.9812


■ 27.8257, 14.4173,  
1.5369


■ 40.4729, 32.8586,  
26.8802


■ 27.7475, 14.3025,  
1.3826


■ 45.3399, 39.9897,  
36.5269

■ 51.1476, 48.5060,  
48.0171

 57.9419, 58.4751,  
61.4397

 65.7655, 69.9604,  
76.8781

 74.6588, 83.0216,  
94.4104

 81.5414, 93.0361,  
108.2678

# Harmonies

## Analogous

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



33.2164, 19.0073, 21.3985



30.9970, 19.0073, 7.9963



25.1385, 19.0073, 2.8813

# Triad

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



30.9970, 19.0073, 7.9963



9.5057, 19.0073, 7.3746



17.8243, 19.0073, 78.9783

# Complementary

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



30.9970, 19.0073, 7.9963



38.3860, 54.1123, 70.7143

# 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.



12.4624, 19.0073, 67.3249



30.9970, 19.0073, 7.9963



8.4068, 19.0073, 20.0085

# Square

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



30.9970, 19.0073, 7.9963



12.7934, 19.0073, 2.6986



9.3484, 19.0073, 42.5589



24.6182, 19.0073, 68.8622



# Rectangle

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



30.9970, 19.0073, 7.9963



20.5272, 19.0073, 1.8583



9.3484, 19.0073, 42.5589



15.8096, 19.0073, 77.3981

# Sweetspot

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



30.9974, 19.0084, 7.9966



73.8162, 68.8391, 66.9649



41.2975, 23.0476, 65.8899



15.2652, 13.9505, 13.2759



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.



30.9974, 19.0084, 7.9966



42.9193, 23.6525, 5.4685



38.0512, 33.2166, 10.0377



12.4301, 12.4235, 12.9393



16.7748, 8.6462, 0.8521



1.0143, 0.5225, 0.0645



# Inverse Universe

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



30.9974, 19.0084, 7.9966



42.9193, 23.6525, 5.4685



24.5537, 26.0431, 67.3506



12.4301, 12.4235, 12.9393



16.7748, 8.6462, 0.8521



1.0143, 0.5225, 0.0645



# Previews

## White Background



This preview shows how the XYZ color 30.9970, 19.0073, 7.9963 looks on a white 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



# Black Background



This preview shows how the XYZ color 30.9970, 19.0073, 7.9963 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

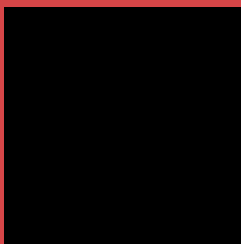
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA × Fail

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

**XYZ 30.9970, 19.0073, 7.9963**

## **Background**



This preview shows how black text looks on a background with the XYZ color 30.9970, 19.0073, 7.9963.



This preview shows how white text looks on a background with the XYZ color 30.9970, 19.0073,



# 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

30.9970, 19.0073, 7.9963

### Protanopia

17.9316, 19.1759, 12.6538

### Deuteranopia

19.5370, 19.2392, 7.3865



## Tritanopia

31.0294, 19.0203, 8.1667

# Trichromacy



## Original Color

30.9970, 19.0073, 7.9963

## Protanomaly

21.0495, 17.7199, 10.6984

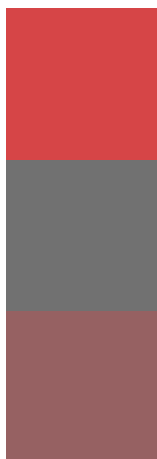
## Deuteranomaly

22.6788, 18.2013, 7.4721

## Tritanomaly

31.0294, 19.0203, 8.1667

# Monochromacy



## Original Color

30.9970, 19.0073, 7.9963

## Achromatopsia

15.6958, 16.5132, 17.9829

## Achromatomaly

19.0570, 15.9153, 13.6228

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 30.9970, 19.0073, 7.9963 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(214, 69, 71)` looks like.

```
.text, #text, p{  
    color:rgb(214, 69, 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(214, 69, 71) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(214, 69, 71) }
```

## Border

The CSS property to change the border of an element to XYZ 30.9970, 19.0073, 7.9963 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(214, 69, 71) }
```



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

```
.border{ border-color:rgb(214, 69, 71) }
```

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

Here you see how a box with a 4 pixel rgb(214, 69, 71) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(214, 69, 71); -webkit-box-  
shadow:4px 4px 4px 4px rgb(214, 69, 71);  
box-shadow:4px 4px 4px 4px rgb(214, 69,  
71) }
```

# Background

The CSS property to change the background color of an element to XYZ 30.9970, 19.0073, 7.9963 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(214, 69, 71) }
```

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

```
.background{ background-color: rgb(214, 69,  
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](#).

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