

# Converting Colors

XYZ(28.0955, 20.7267, 3.6748)

Have a look what the booklet for  
XYZ(28.0955, 20.7267, 3.6748)  
contains.

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# Color

**XYZ(27.9578, 20.5966,  
3.6644)**

# Conversions

## Conversions Part 1

<b>Format</b>	<b>Color</b>
Hex	C7601D
RGB	199, 96, 29
RGB Percent	78%, 38%, 11%
CMY	0.2196, 0.6235, 0.8863
CMYK	0.00, 0.52, 0.85, 0.22
HSL	24°, 75%, 45%
HSV	24°, 85%, 78%
XYZ	27.9578, 20.5966, 3.6644
YIQ	119.1590, 82.8950, 0.9990

# Conversions

## Conversions Part 2

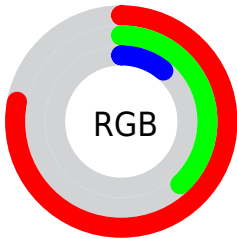
Format	Color
R <sub>Y</sub> B	199, 140, 29
Decimal	13066269
CIE Lab	52.51, 37.24, 53.54
CIE LCh	53, 65.221, 55.176
Yxy	20.5966, 0.5354, 0.3944
Android (android.graphics.Color)	4291256349 (0xFFC7601D)
YUV	119.1590, -44.4484, 70.0206
Hunter-Lab	45.3835, 30.5411, 26.9812

# Details

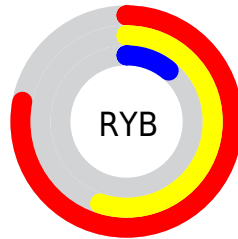
The XYZ color **27.9578, 20.5966, 3.6644** is a dark color, and the websafe version is hex **CC6633**. The color can be described as dark washed orange. A complement of this color would be **19.0660, 20.8857, 57.0587**, and the grayscale version is **17.7038, 18.6258, 20.2835**.

A 20% lighter version of the original color is **53.2779, 43.0190, 13.0849**, and **11.4582, 7.3573, 0.8162** is the 20% darker color. If you saturate the color by 10%, you get **26.7693, 18.4949, 2.4204**, and if you desaturate by 10%, it is **29.4745, 23.1014, 5.8005**.

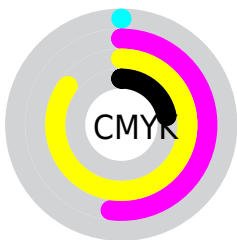
# Distribution



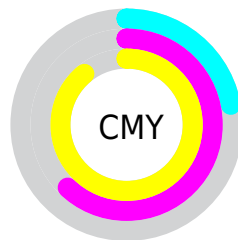
- Red (78%)
- Green (38%)
- Blue (11%)



- Red (78%)
- Yellow (55%)
- Blue (11%)



- Cyan (0%)
- Magenta (52%)
- Yellow (85%)
- Black (22%)




- Cyan (22%)
- Magenta (62%)
- Yellow (89%)


# Brightness & Saturation Gradients

These gradients show how the XYZ color 27.9578, 20.5966, 3.6644 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 27.9578, 20.5966, 3.6644 by changing the saturation by 10% instead.





 27.9578, 20.5966,  
3.6644


 27.9578, 20.5966,  
3.6644


284.3490,  
255.1268, 144.4188


 18.4341, 12.8295,  
1.4431


 55.8262, 44.4152,  
13.2281


 11.3637, 7.3112,  
0.1750


 74.9016, 61.2354,  
21.4075


 6.3811, 3.6575,  
0.0000


 97.8917, 81.8421,  
32.4101

 3.1210, 1.4839,  
0.0000

 125.1617,  
106.6197, 46.6543

 1.2181, 0.2773,  
0.0000

 157.0771,  
135.9526, 64.5588

 0.1206, 0.0000,  
0.0000

 194.0032,

 0.0000, 0.0000,

170.2251, 86.5420

0.0000

236.3054,  
209.8217, 113.0225

27.9578, 20.5966,  
3.6644

27.9578, 20.5966,  
3.6644

26.7693, 18.4949,  
2.4204

29.4745, 23.1014,  
5.8005

26.3084, 17.6529,  
2.0207

31.3519, 26.0309,  
8.9701

33.6188, 29.4086,  
13.2903

36.3004, 33.2545,  
18.8615

39.4193, 37.5877,  
25.7732

■ 42.9965, 42.4256,  
34.1068

■ 47.0513, 47.7851,  
43.9369

■ 51.6021, 53.6820,  
55.3330

■ 56.6658, 60.1314,  
68.3600

# Harmonies

## Analogous

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



33.8192, 20.5966, 10.0440



27.9578, 20.5966, 3.6644



20.6877, 20.5966, 2.0404

# Triad

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



27.9578, 20.5966, 3.6644



9.2867, 20.5966, 19.4449



25.6295, 20.5966, 75.6484

# Complementary

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



27.9578, 20.5966, 3.6644



19.0660, 20.8857, 57.0587

# 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.



18.5057, 20.5966, 83.5504



27.9578, 20.5966, 3.6644



10.0271, 20.5966, 42.2332

# Square

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



27.9578, 20.5966, 3.6644



10.7418, 20.5966, 7.1977



13.0638, 20.5966, 68.8369



32.2728, 20.5966, 51.0343



# Rectangle

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



27.9578, 20.5966, 3.6644



16.3731, 20.5966, 2.2850



13.0638, 20.5966, 68.8369



23.1725, 20.5966, 80.7842

# Sweetspot

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



27.9583, 20.5977, 3.6648



74.6505, 73.4366, 58.2137



28.2838, 14.7374, 23.8474



15.4930, 15.0657, 11.3185



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.



27.9583, 20.5977, 3.6648



45.8461, 30.4723, 3.4654



39.9282, 44.5375, 7.6547



10.9711, 11.3113, 11.1678



16.9971, 11.5113, 1.3261



0.8751, 0.6857, 0.0862

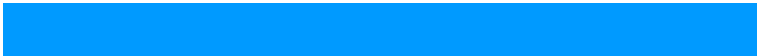


# Inverse Universe

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



19.0660, 20.8857, 57.0587



29.6868, 30.4936, 98.9289



11.9069, 6.5676, 54.6724



10.5823, 11.3387, 13.5483



11.0787, 11.5514, 36.3901



0.5937, 0.6853, 1.7461



# Previews

## White Background



This preview shows how the XYZ color 27.9578, 20.5966, 3.6644 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 27.9578, 20.5966, 3.6644 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 27.9578, 20.5966, 3.6644**

## **Background**



This preview shows how black text looks on a background with the XYZ color 27.9578, 20.5966, 3.6644.



This preview shows how white text looks on a background with the XYZ color 27.9578, 20.5966,



# 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

27.9578, 20.5966, 3.6644

### Protanopia

18.7793, 20.7180, 4.7595

### Deuteranopia

20.9811, 20.5991, 3.3221



## Tritanopia

30.1246, 20.7134, 13.4767

# Trichromacy



## Original Color

27.9578, 20.5966, 3.6644

## Protanomaly

21.3198, 20.0583, 4.2613

## Deuteranomaly

23.2663, 20.4181, 3.3766

## Tritanomaly

29.0842, 20.5397, 8.5625

# Monochromacy



## Original Color

27.9578, 20.5966, 3.6644

## Achromatopsia

17.5343, 18.4475, 20.0893

## Achromatomaly

19.5769, 18.3367, 11.3116

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 27.9578, 20.5966, 3.6644 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(199, 96, 29)` looks like.

```
.text, #text, p{  
    color:rgb(199, 96, 29)  
}
```

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(199, 96, 29) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(199, 96, 29) }
```

## Border

The CSS property to change the border of an element to XYZ 27.9578, 20.5966, 3.6644 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(199, 96, 29) }
```



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

```
.border{ border-color:rgb(199, 96, 29) }
```

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

Here you see how a box with a 4 pixel `rgb(199, 96, 29)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(199, 96, 29); -webkit-box-  
shadow:4px 4px 4px 4px rgb(199, 96, 29);  
box-shadow:4px 4px 4px 4px rgb(199, 96,  
29) }
```

# Background

The CSS property to change the background color of an element to XYZ 27.9578, 20.5966, 3.6644 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(199, 96, 29) }
```

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

```
.background{ background-color: rgb(199, 96,  
29) }
```

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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