

# Converting Colors

XYZ(27.8231, 20.7398, 2.6879)

Have a look what the booklet for  
XYZ(27.8231, 20.7398, 2.6879)  
contains.

<b>XYZ(27.8553, 20.7025, 2.6714)</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(27.8553, 20.7025,  
2.6714)**

# Conversions

## Conversions Part 1

<b>Format</b>	<b>Color</b>
Hex	C76105
RGB	199, 97, 5
RGB Percent	78%, 38%, 2%
CMY	0.2196, 0.6196, 0.9804
CMYK	0.00, 0.51, 0.97, 0.22
HSL	28°, 95%, 40%
HSV	28°, 97%, 78%
XYZ	27.8553, 20.7025, 2.6714
YIQ	117.0100, 90.3240, -6.9880

# Conversions

## Conversions Part 2

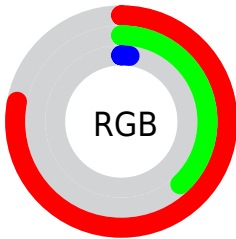
<b>Format</b>	<b>Color</b>
<b>R<sub>YB</sub></b>	199, 180, 5
Decimal	13066501
CIE <sub>Lab</sub>	52.62, 36.33, 60.20
CIE <sub>LCh</sub>	53, 70.314, 58.887
Yxy	20.7025, 0.5437, 0.4041
Android (android.graphics.Color)	4291256581 (0xFFC76105)
YUV	117.0100, -55.2209, 71.9052
Hunter-Lab	45.5000, 29.6535, 28.3690

# Details

The XYZ color **27.8553, 20.7025, 2.6714** is a dark color, and the websafe version is hex **CC6600**. The color can be described as dark washed orange. A complement of this color would be **15.6287, 14.6705, 56.0404**, and the grayscale version is **17.0587, 17.9471, 19.5444**.

A 20% lighter version of the original color is **52.9708, 43.1482, 10.6908**, and **11.4977, 7.4363, 0.8294** is the 20% darker color. If you saturate the color by 10%, you get **27.5892, 20.2144, 2.4477**, and if you desaturate by 10%, it is **29.0342, 22.8253, 3.7898**.

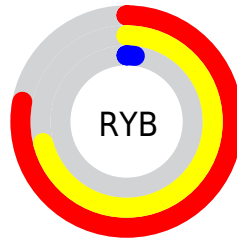
# Distribution



Red (78%)

Green (38%)

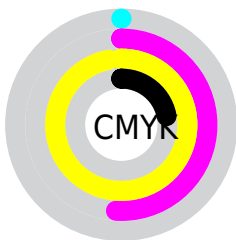
Blue (2%)



Red (78%)

Yellow (71%)

Blue (2%)

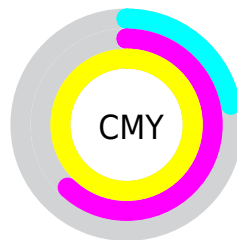


Cyan (0%)

Magenta (51%)

Yellow (97%)

Black (22%)



Cyan (22%)

Magenta (62%)

Yellow (98%)

# Brightness & Saturation Gradients

These gradients show how the XYZ color 27.8553, 20.7025, 2.6714 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 27.8553, 20.7025, 2.6714 by changing the saturation by 10% instead.



■ 27.8553, 20.7025,  
2.6714

■ 27.8553, 20.7025,  
2.6714

283.8675,  
255.6932, 132.0587

■ 18.3565, 12.9067,  
0.9290

■ 55.6636, 44.5919,  
10.8062

■ 11.3075, 7.3643,  
0.0000

■ 74.7038, 61.4543,  
18.0361

■ 6.3429, 3.6910,  
0.0000

■ 97.6552, 82.1076,  
27.9324

■ 3.0973, 1.5022,  
0.0000

■ 124.8832,  
106.9364, 40.9137

■ 1.2054, 0.2903,  
0.0000

■ 156.7530,  
136.3250, 57.3984

■ 0.1106, 0.0000,  
0.0000


■ 193.6301,


■ 0.0000, 0.0000,


170.6577, 77.8051


0.0000


 235.8798,  
210.3190, 102.5523


 27.8553, 20.7025,  
2.6714


 27.8553, 20.7025,  
2.6714

 27.5892, 20.2144,  
2.4477

 29.0342, 22.8253,  
3.7898

 30.4933, 25.2707,  
5.7335

 32.2692, 28.0616,  
8.6719

 34.3888, 31.2153,  
12.7248

 36.8753, 34.7476,  
17.9948

■ 39.7496, 38.6732,  
24.5727

■ 43.0307, 43.0057,  
32.5405

■ 46.7364, 47.7579,  
41.9735

■ 50.8831, 52.9420,  
52.9415

# Harmonies

## Analogous

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



34.6986, 20.7025, 8.1672



27.8553, 20.7025, 2.6714



19.9508, 20.7025, 1.5065

# Triad

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



27.8553, 20.7025, 2.6714



8.7174, 20.7025, 21.7701



27.2645, 20.7025, 79.2156

# Complementary

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



27.8553, 20.7025, 2.6714



15.6287, 14.6705, 56.0404

# 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.



19.4059, 20.7025, 91.3265



27.8553, 20.7025, 2.6714



9.7703, 20.7025, 48.0637

# Square

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



27.8553, 20.7025, 2.6714



9.9422, 20.7025, 7.4993



13.2803, 20.7025, 77.4255



34.3024, 20.7025, 50.3378



# Rectangle

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



27.8553, 20.7025, 2.6714



15.4752, 20.7025, 1.8903



13.2803, 20.7025, 77.4255



24.5782, 20.7025, 85.9553

# Sweetspot

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



27.8558, 20.7036, 2.6718



74.1725, 73.7720, 54.0731



26.3391, 13.3434, 15.5057



15.3378, 15.0815, 10.2610



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.



27.8558, 20.7036, 2.6718



48.0694, 34.9187, 4.2065



42.5473, 50.0867, 7.5689



11.0418, 11.4527, 11.1914



17.8270, 13.1713, 1.6027



0.9165, 0.7684, 0.1000



# Inverse Universe

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



15.6287, 14.6705, 56.0404



26.5842, 24.2884, 97.8947



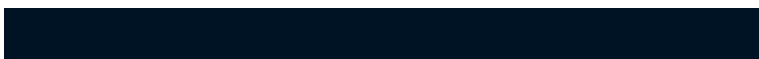
10.4965, 4.4061, 54.3296



10.5104, 11.1949, 13.5244



9.9408, 9.2755, 36.0108



0.5429, 0.5835, 1.7292



# Previews

## White Background



This preview shows how the XYZ color 27.8553, 20.7025, 2.6714 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 27.8553, 20.7025, 2.6714 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 27.8553, 20.7025, 2.6714**

## **Background**



This preview shows how black text looks on a background with the XYZ color 27.8553, 20.7025, 2.6714.



This preview shows how white text looks on a background with the XYZ color 27.8553, 20.7025,



# 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

27.8553, 20.7025, 2.6714

### Protanopia

18.8539, 20.9732, 3.6268

### Deuteranopia

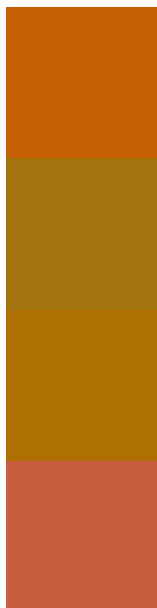
21.0145, 20.8039, 2.9080



## Tritanopia

30.1246, 20.7134, 13.4767

# Trichromacy



## Original Color

27.8553, 20.7025, 2.6714

## Protanomaly

21.4223, 20.3064, 3.1712

## Deuteranomaly

23.2607, 20.5914, 2.8060

## Tritanomaly

28.8989, 20.6051, 7.1567

# Monochromacy



## Original Color

27.8553, 20.7025, 2.6714

## Achromatopsia

16.9083, 17.7888, 19.3720

## Achromatomaly

18.9131, 17.8767, 9.2912

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 27.8553, 20.7025, 2.6714 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, 97, 5)` looks like.

```
.text, #text, p{  
    color:rgb(199, 97, 5)  
}
```

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, 97, 5) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(199, 97, 5) }
```

## Border

The CSS property to change the border of an element to XYZ 27.8553, 20.7025, 2.6714 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, 97, 5) }
```



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

```
.border{ border-color:rgb(199, 97, 5) }
```

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

Here you see how a box with a 4 pixel `rgb(199, 97, 5)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(199, 97, 5); -webkit-box-  
shadow:4px 4px 4px 4px rgb(199, 97, 5);  
box-shadow:4px 4px 4px 4px rgb(199, 97, 5)  
}
```

# Background

The CSS property to change the background color of an element to XYZ 27.8553, 20.7025, 2.6714 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(199, 97, 5) }
```

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

```
.background{ background-color: rgb(199, 97,  
5) }
```

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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