

# Converting Colors

XYZ(20.7347, 10.2821, 31.9237)

Have a look what the booklet for  
XYZ(20.7347, 10.2821, 31.9237)  
contains.

<b>XYZ(20.7996, 10.3142, 31.9049)</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(20.7996, 10.3142,  
31.9049)**

# Conversions

## Conversions Part 1

Format	Color
Hex	A1109B
RGB	161, 16, 155
RGB Percent	63%, 6%, 61%
CMY	0.3686, 0.9372, 0.3922
CMYK	0.00, 0.90, 0.04, 0.37
HSL	302°, 82%, 35%
HSV	302°, 90%, 63%
XYZ	20.7996, 10.3142, 31.9049
YIQ	75.2010, 41.8010, 73.9690

# Conversions

## Conversions Part 2

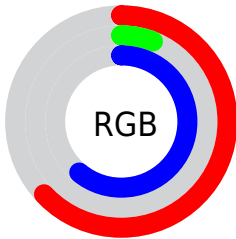
<b>Format</b>	<b>Color</b>
<b>R<sub>YB</sub></b>	161, 16, 155
Decimal	10555547
CIE Lab	38.40, 66.82, -39.05
CIE LCh	38, 77.393, 329.701
Yxy	10.3142, 0.3301, 0.1637
Android (android.graphics.Color)	4288745627 (0xFFA1109B)
YUV	75.2010, 39.3409, 75.2457
Hunter-Lab	32.1157, 59.4022, -36.4198

# Details

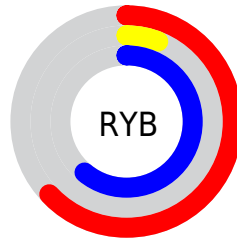
The XYZ color **20.7996, 10.3142, 31.9049** is a dark color, and the websafe version is hex **990099**. A complement of this color would be **13.1039, 25.6583, 5.0217**, and the grayscale version is **6.6514, 6.9978, 7.6206**.

A 20% lighter version of the original color is **44.1741, 26.3688, 63.7342**, and **8.2739, 3.9825, 13.1646** is the 20% darker color. If you saturate the color by 10%, you get **20.5590, 9.9215, 31.5509**, and if you desaturate by 10%, it is **21.1902, 11.0053, 32.3120**.

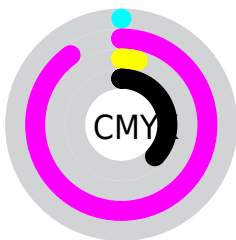
# Distribution



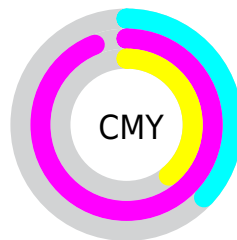
- Red (63%)
- Green (6%)
- Blue (61%)



- Red (63%)
- Yellow (6%)
- Blue (61%)



- Cyan (0%)
- Magenta (90%)
- Yellow (4%)
- Black (37%)




- Cyan (37%)
- Magenta (94%)
- Yellow (39%)


# Brightness & Saturation Gradients

These gradients show how the XYZ color 20.7996, 10.3142, 31.9049 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 20.7996, 10.3142, 31.9049 by changing the saturation by 10% instead.




 20.7996, 10.3142,  
31.9049


 20.7996, 10.3142,  
31.9049

248.9635,  
192.9001, 325.1652


 13.0892, 5.6078,  
21.0247


 44.2476, 26.3848,  
63.7581


 7.5674, 2.6081,  
12.9506


 60.7159, 38.5178,  
85.5682


 3.8689, 0.9307,  
7.2642


 80.8342, 53.8951,  
111.8587

 1.6282, 0.0000,  
3.5469

 104.9679, 72.9011,  
143.0480

 0.4107, 0.0000,  
1.3802

 133.4823, 95.9202,  
179.5548

 0.0000, 0.0000,  
0.1262

 166.7428,

 0.0000, 0.0000,

123.3368, 221.7976

0.0000

205.1147,  
155.5353, 270.1948

■ 20.7996, 10.3142,  
31.9049

■ 20.7996, 10.3142,  
31.9049

■ 20.5590, 9.9215,  
31.5509

■ 21.1902, 11.0053,  
32.3120

■ 21.7928, 12.1201,  
32.7913

■ 22.6350, 13.7137,  
33.3520

■ 23.7399, 15.8323,  
34.0017

■ 25.1282, 18.5170,  
34.7475

■ 26.8181, 21.8045,  
35.5953

■ 28.8266, 25.7287,  
36.5509

■ 31.1692, 30.3208,  
37.6194

■ 33.8607, 35.6099,  
38.8057

# Harmonies

## Analogous

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



15.4423, 10.3142, 56.8208



20.7996, 10.3142, 31.9049



23.0664, 10.3142, 11.3762

# Triad

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



20.7996, 10.3142, 31.9049



9.8541, 10.3142, 0.0000



3.5579, 10.3142, 31.4033

# Complementary

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



20.7996, 10.3142, 31.9049



13.1039, 25.6583, 5.0217

# 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.



2.9478, 10.3142, 11.0859



20.7996, 10.3142, 31.9049



5.7375, 10.3142, 0.0000

# Square

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



20.7996, 10.3142, 31.9049



15.5614, 10.3142, 0.0000



3.5838, 10.3142, 2.2334



5.6763, 10.3142, 56.3942



# Rectangle

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



20.7996, 10.3142, 31.9049



22.0760, 10.3142, 4.2239



3.5838, 10.3142, 2.2334



3.2102, 10.3142, 23.4506

# Sweetspot

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



20.8000, 10.3147, 31.9051



48.8893, 40.7291, 64.1647



6.9246, 3.1020, 33.9524



10.4887, 8.4771, 13.9590



76.7382, 80.7346, 87.9200



13.3056, 13.9985, 15.2444



# Same Dimension

The Same Dimension uses a secret algorithm to generate beautiful new colors.



20.8000, 10.3147, 31.9051



36.8003, 17.7609, 56.4059



16.4711, 8.5831, 9.1093



7.3516, 7.1971, 8.8380



16.4235, 7.9255, 25.2186



0.3487, 0.1680, 0.5489



# Inverse Universe

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



20.8000, 10.3147, 31.9051



36.8003, 17.7609, 56.4059



14.9498, 26.3966, 14.7422



7.3516, 7.1971, 8.8380



16.4235, 7.9255, 25.2186



0.3487, 0.1680, 0.5489



# Previews

## White Background



This preview shows how the XYZ color 20.7996, 10.3142, 31.9049 looks on a white 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



# Black Background



## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA × Fail

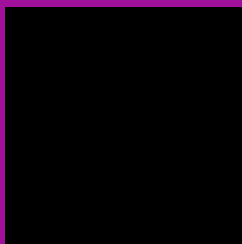
Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail

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

**XYZ 20.7996, 10.3142, 31.9049**

## **Background**



This preview shows how black text looks on a background with the XYZ color 20.7996, 10.3142, 31.9049.



This preview shows how white text looks on a background with the XYZ color 20.7996, 10.3142,



# 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

20.7996, 10.3142, 31.9049

### Protanopia

12.6495, 10.7756, 48.9902

### Deuteranopia

11.0021, 10.7537, 28.6899



## Tritanopia

15.6549, 10.5140, 6.3586

# Trichromacy



## Original Color

20.7996, 10.3142, 31.9049



## Protanomaly

11.3627, 7.5096, 41.9249



## Deuteranomaly

12.2952, 8.4334, 29.4135



## Tritanomaly

16.6606, 9.7272, 12.5547

# Monochromacy



## Original Color

20.7996, 10.3142, 31.9049



## Achromatopsia

6.6877, 7.0360, 7.6622



## Achromatomaly

9.7617, 6.7020, 13.8758

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 20.7996, 10.3142, 31.9049 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(161, 16, 155)` looks like.

```
.text, #text, p{  
    color:rgb(161, 16, 155)  
}
```

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(161, 16, 155) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(161, 16, 155) }
```

## Border

The CSS property to change the border of an element to XYZ 20.7996, 10.3142, 31.9049 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(161, 16, 155) }
```



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

```
.border{ border-color:rgb(161, 16, 155) }
```

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

Here you see how a box with a 4 pixel rgb(161, 16, 155) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(161, 16, 155); -webkit-box-  
shadow:4px 4px 4px 4px rgb(161, 16, 155);  
box-shadow:4px 4px 4px 4px rgb(161, 16,  
155) }
```

# Background

The CSS property to change the background color of an element to XYZ 20.7996, 10.3142, 31.9049 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(161, 16, 155) }
```

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

```
.background{ background-color: rgb(161, 16,  
155) }
```

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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