

Converting Colors

XYZ(20.2116, 9.7056, 33.2010)

Have a look what the booklet for
XYZ(20.2116, 9.7056, 33.2010)
contains.

XYZ(20.2721, 9.7377, 33.1589)	3
<i>Conversions</i>	4
<i>Details</i>	6
<i>Harmonies</i>	12
<i>Previews</i>	24
<i>Color Blindness Simulation</i>	28
<i>CSS Examples</i>	31

Color

**XYZ(20.2721, 9.7377,
33.1589)**

Conversions

Conversions Part 1

Format	Color
Hex	9E009E
RGB	158, 0, 158
RGB Percent	62%, 0%, 62%
CMY	0.3804, 0.9999, 0.3804
CMYK	0.00, 1.00, 0.00, 0.38
HSL	300°, 100%, 31%
HSV	300°, 100%, 62%
XYZ	20.2721, 9.7377, 33.1589
YIQ	65.2540, 43.4500, 82.6340

Conversions

Conversions Part 2

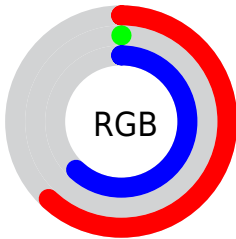
Format	Color
R_{YB}	158, 0, 158
Decimal	10354846
CIE _{Lab}	37.37, 68.71, -42.55
CIE _{LCh}	37, 80.812, 328.233
Yxy	9.7377, 0.3209, 0.1542
Android (android.graphics.Color)	4288544926 (0xFF9E009E)
YUV	65.2540, 45.7238, 81.3382
Hunter-Lab	31.2053, 61.3509, -41.1582

Details

The XYZ color **20.2721, 9.7377, 33.1589** is a dark color, and the websafe version is hex **990099**. A complement of this color would be **12.2273, 24.4542, 4.0761**, and the grayscale version is **4.9922, 5.2522, 5.7197**.

A 20% lighter version of the original color is **43.2716, 25.2879, 65.5512**, and **8.0810, 3.8654, 13.9558** is the 20% darker color. If you saturate the color by 10%, you get **20.2723, 9.7378, 33.1590**, and if you desaturate by 10%, it is **20.4549, 10.1030, 33.2199**.

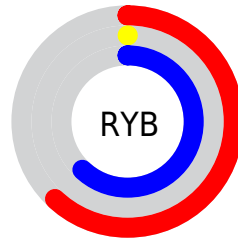
Distribution



Red (62%)

Green (0%)

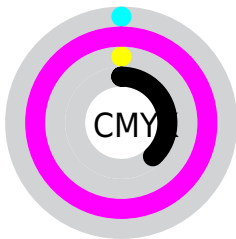
Blue (62%)



Red (62%)

Yellow (0%)

Blue (62%)

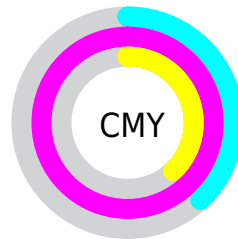


Cyan (0%)

Magenta (100%)

Yellow (0%)

Black (38%)



Cyan (38%)


Magenta (100%)


Yellow (38%)

Brightness & Saturation Gradients


These gradients show how the XYZ color 20.2721, 9.7377, 33.1589 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 20.2721, 9.7377, 33.1589 by changing the saturation by 10% instead.


 20.2721, 9.7377,
33.1589


 20.2721, 9.7377,
33.1589


246.1900,
188.7896, 331.0191


 12.7024, 5.2254,
21.9761


 43.3734, 25.3010,
65.7424


 7.2995, 2.3801,
13.6412


 59.6357, 37.1207,
87.9802


 3.6981, 0.8156,
7.7356


 79.5262, 52.1451,
114.7400

 1.5328, 0.0000,
3.8409

 103.4103, 70.7584,
146.4404

 0.3480, 0.0000,
1.5385

 131.6534, 93.3451,
183.5000

 0.0000, 0.0000,
0.2464

 164.6208,

 0.0000, 0.0000,

120.2896, 226.3373

0.0000

202.6779,
151.9763, 275.3708

■ 20.2721, 9.7377,
33.1589

■ 20.2721, 9.7377,
33.1589

■ 20.2723, 9.7378,
33.1590

■ 20.4549, 10.1030,
33.2199

■ 20.7785, 10.7502,
33.3278

■ 21.3055, 11.8042,
33.5035

■ 22.0618, 13.3167,
33.7556

■ 23.0694, 15.3320,
34.0915

■ 24.3479, 17.8890,
34.5177

■ 25.9149, 21.0229,
35.0401

■ 27.7864, 24.7660,
35.6640

■ 29.9775, 29.1480,
36.3943

Harmonies

Analogous

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



14.6790, 9.7377, 59.1722



20.2721, 9.7377, 33.1589



22.8294, 9.7377, 11.4879

Triad

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



20.2721, 9.7377, 33.1589



9.5595, 9.7377, 0.0000



3.0469, 9.7377, 30.0686

Complementary

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



20.2721, 9.7377, 33.1589



12.2273, 24.4542, 4.0761

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.



2.5284, 9.7377, 9.7642



20.2721, 9.7377, 33.1589



5.3654, 9.7377, 0.0000

Square

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



20.2721, 9.7377, 33.1589



15.3992, 9.7377, 0.0000



3.1926, 9.7377, 1.6475



5.0112, 9.7377, 56.5024

Rectangle

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



20.2721, 9.7377, 33.1589



21.9553, 9.7377, 4.0440



3.1926, 9.7377, 1.6475



2.7382, 9.7377, 21.9649

Sweetspot

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



20.2725, 9.7382, 33.1591



46.8762, 37.8079, 63.5703



6.1720, 2.4691, 32.4995



10.3016, 7.9906, 14.2430



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.



20.2725, 9.7382, 33.1591



36.8140, 17.6836, 60.2158



15.5125, 7.8341, 8.0931



6.9042, 6.7546, 8.3466



16.2358, 7.7989, 26.5566



0.2903, 0.1394, 0.4748

Inverse Universe

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



20.2725, 9.7382, 33.1591



36.8140, 17.6836, 60.2158



13.6388, 25.0188, 11.5089



6.9042, 6.7546, 8.3466



16.2358, 7.7989, 26.5566



0.2903, 0.1394, 0.4748

Previews

White Background



This preview shows how the XYZ color 20.2721, 9.7377, 33.1589 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 ✓ Pass

Black Background



Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

Any Text WCAG AA × Fail

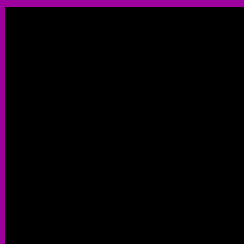
Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail

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

XYZ 20.2721, 9.7377, 33.1589

Background



This preview shows how black text looks on a background with the XYZ color 20.2721, 9.7377, 33.1589.



This preview shows how white text looks on a background with the XYZ color 20.2721, 9.7377,

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

20.2721, 9.7377, 33.1589

Protanopia

12.1652, 10.3192, 47.2496

Deuteranopia

10.6872, 10.4364, 29.8849



Tritanopia

14.9187, 10.1345, 6.3241

Trichromacy



Original Color

20.2721, 9.7377, 33.1589

Protanomaly

10.7914, 6.6974, 41.2814

Deuteranomaly

11.5942, 7.5684, 30.5555

Tritanomaly

15.9265, 9.0273, 12.7074

Monochromacy



Original Color

20.2721, 9.7377, 33.1589

Achromatopsia

5.0244, 5.2861, 5.7565

Achromatomaly

8.1907, 5.1394, 12.3647

CSS Examples

Text

The CSS property to change the color of the text to XYZ 20.2721, 9.7377, 33.1589 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(158, 0, 158)` looks like.

```
.text, #text, p{  
    color:rgb(158, 0, 158)  
}
```

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(158, 0, 158) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(158, 0, 158) }
```

Border

The CSS property to change the border of an element to XYZ 20.2721, 9.7377, 33.1589 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(158, 0, 158) }
```


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

```
.border{ border-color:rgb(158, 0, 158) }
```

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

Here you see how a box with a 4 pixel rgb(158, 0, 158) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(158, 0, 158); -webkit-box-  
shadow:4px 4px 4px 4px rgb(158, 0, 158);  
box-shadow:4px 4px 4px 4px rgb(158, 0,  
158) }
```

Background

The CSS property to change the background color of an element to XYZ 20.2721, 9.7377, 33.1589 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(158, 0, 158) }
```

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

```
.background{ background-color: rgb(158, 0,  
158) }
```

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