

Converting Colors

XYZ(20.7449, 9.9877, 32.8981)

Have a look what the booklet for
XYZ(20.7449, 9.9877, 32.8981)
contains.

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Color

**XYZ(20.7837, 10.0114,
32.7353)**

Conversions

Conversions Part 1

Format	Color
Hex	A1009D
RGB	161, 0, 157
RGB Percent	63%, 0%, 62%
CMY	0.3686, 0.9999, 0.3843
CMYK	0.00, 1.00, 0.02, 0.37
HSL	301°, 100%, 32%
HSV	301°, 100%, 63%
XYZ	20.7837, 10.0114, 32.7353
YIQ	66.0370, 45.5590, 82.9590

Conversions

Conversions Part 2

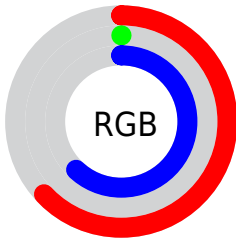
Format	Color
R_{YB}	161, 0, 157
Decimal	10551453
CIE _{Lab}	37.86, 69.06, -41.12
CIE _{LCh}	38, 80.375, 329.233
Yxy	10.0114, 0.3271, 0.1576
Android (android.graphics.Color)	4288741533 (0xFFA1009D)
YUV	66.0370, 44.8448, 83.2826
Hunter-Lab	31.6408, 61.8788, -39.1924

Details

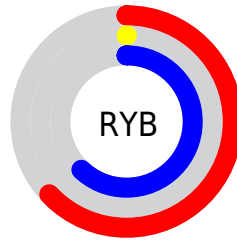
The XYZ color **20.7837, 10.0114, 32.7353** is a dark color, and the websafe version is hex **990099**. A complement of this color would be **12.7672, 25.4989, 4.3643**, and the grayscale version is **5.1136, 5.3799, 5.8587**.

A 20% lighter version of the original color is **44.0395, 25.6984, 64.9265**, and **8.3755, 4.0232, 13.6997** is the 20% darker color. If you saturate the color by 10%, you get **20.7839, 10.0114, 32.7352**, and if you desaturate by 10%, it is **21.0052, 10.3993, 32.9780**.

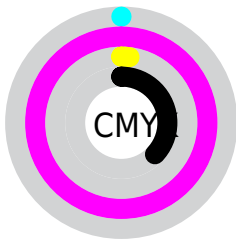
Distribution



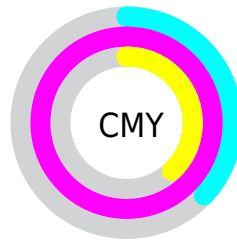
- Red (63%)
- Green (0%)
- Blue (62%)



- Red (63%)
- Yellow (0%)
- Blue (62%)



- Cyan (0%)
- Magenta (100%)
- Yellow (2%)
- Black (37%)





- Cyan (37%)
- Magenta (100%)
- Yellow (38%)

Brightness & Saturation Gradients

These gradients show how the XYZ color 20.7837, 10.0114, 32.7353 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 20.7837, 10.0114, 32.7353 by changing the saturation by 10% instead.


 20.7837, 10.0114,
32.7353


 20.7837, 10.0114,
32.7353


248.8803,
190.7534, 329.0506


 13.0775, 5.4065,
21.6543


 44.2213, 25.8169,
65.0733


 7.5593, 2.4877,
13.4072


 60.6834, 37.7864,
87.1673


 3.8637, 0.8705,
7.5755


 80.7949, 52.9795,
113.7695

 1.6253, 0.0000,
3.7407

 104.9211, 71.7806,
145.2983

 0.4088, 0.0000,
1.4842

 133.4274, 94.5742,
182.1723

 0.0000, 0.0000,
0.2061

 166.6791,

 0.0000, 0.0000,

121.7446, 224.8100

0.0000

205.0416,
153.6762, 273.6299

■ 20.7837, 10.0114,
32.7353

■ 20.7837, 10.0114,
32.7353

■ 20.7839, 10.0114,
32.7352

■ 21.0052, 10.3993,
32.9780

■ 21.3749, 11.0837,
33.2706

■ 21.9570, 12.1928,
33.6345

■ 22.7786, 13.7807,
34.0789

■ 23.8630, 15.8940,
34.6114

■ 25.2305, 18.5735,
35.2388

■ 26.8997, 21.8559,
35.9673

■ 28.8873, 25.7752,
36.8025

■ 31.2090, 30.3625,
37.7497

Harmonies

Analogous

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



15.2038, 10.0114, 58.9490



20.7837, 10.0114, 32.7353



23.2127, 10.0114, 11.2840

Triad

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



20.7837, 10.0114, 32.7353



9.6485, 10.0114, 0.0000



3.2345, 10.0114, 31.3881

Complementary

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



20.7837, 10.0114, 32.7353



12.7672, 25.4989, 4.3643

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.



2.6598, 10.0114, 10.5262



20.7837, 10.0114, 32.7353



5.4592, 10.0114, 0.0000

Square

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



20.7837, 10.0114, 32.7353



15.5191, 10.0114, 0.0000



3.2994, 10.0114, 1.8864



5.3025, 10.0114, 57.7893

Rectangle

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



20.7837, 10.0114, 32.7353



22.2290, 10.0114, 3.9829



3.2994, 10.0114, 1.8864



2.9022, 10.0114, 23.1347

Sweetspot

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



20.7841, 10.0119, 32.7355



47.9876, 38.7734, 64.3338



6.4671, 2.5911, 33.8778



10.2541, 7.9716, 13.9926



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.



20.7841, 10.0119, 32.7355



37.2104, 17.9249, 58.5651



16.0672, 8.1251, 7.8967



7.3567, 7.1991, 8.8647



16.6017, 7.9967, 26.1568



0.3510, 0.1689, 0.5612

Inverse Universe

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



20.7841, 10.0119, 32.7355



37.2104, 17.9249, 58.5651



14.3140, 26.1176, 12.5095



7.3567, 7.1991, 8.8647



16.6017, 7.9967, 26.1568



0.3510, 0.1689, 0.5612

Previews

White Background



This preview shows how the XYZ color 20.7837, 10.0114, 32.7353 looks on a white background.

Color Contrast Check

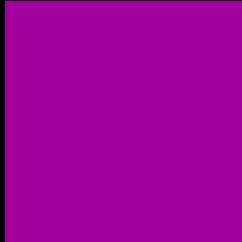
Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA × Fail

Black Background



This preview shows how the XYZ color 20.7837, 10.0114, 32.7353 looks on a 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 20.7837, 10.0114, 32.7353

Background



This preview shows how black text looks on a background with the XYZ color 20.7837, 10.0114, 32.7353.



This preview shows how white text looks on a background with the XYZ color 20.7837, 10.0114,

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

20.7837, 10.0114, 32.7353

Protanopia

12.5420, 10.7326, 48.4243

Deuteranopia

10.9761, 10.7222, 29.5081



Tritanopia

15.4685, 10.4179, 6.3498

Trichromacy



Original Color

20.7837, 10.0114, 32.7353



Protanomaly

11.1032, 6.9907, 41.8384



Deuteranomaly

11.9737, 7.8491, 30.1621



Tritanomaly

16.4952, 9.3205, 12.7340

Monochromacy



Original Color

20.7837, 10.0114, 32.7353



Achromatopsia

5.1784, 5.4480, 5.9329



Achromatomaly

8.4469, 5.3235, 12.3867

CSS Examples

Text

The CSS property to change the color of the text to XYZ 20.7837, 10.0114, 32.7353 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, 0, 157)` looks like.

```
.text, #text, p{  
    color:rgb(161, 0, 157)  
}
```

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, 0, 157) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(161, 0, 157) }
```

Border

The CSS property to change the border of an element to XYZ 20.7837, 10.0114, 32.7353 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, 0, 157) }
```


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

```
.border{ border-color:rgb(161, 0, 157) }
```

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

Here you see how a box with a 4 pixel rgb(161, 0, 157) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(161, 0, 157); -webkit-box-  
shadow:4px 4px 4px 4px rgb(161, 0, 157);  
box-shadow:4px 4px 4px 4px rgb(161, 0,  
157) }
```

Background

The CSS property to change the background color of an element to XYZ 20.7837, 10.0114, 32.7353 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(161, 0, 157) }
```

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

```
.background{ background-color: rgb(161, 0,  
157) }
```

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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