

Converting Colors

XYZ(21.8413, 12.0074, 31.5758)

Have a look what the booklet for
XYZ(21.8413, 12.0074, 31.5758)
contains.

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Color

**XYZ(21.8754, 11.9964,
31.7344)**

Conversions

Conversions Part 1

Format	Color
Hex	A32D9A
RGB	163, 45, 154
RGB Percent	64%, 18%, 60%
CMY	0.3608, 0.8235, 0.3961
CMYK	0.00, 0.72, 0.06, 0.36
HSL	305°, 57%, 41%
HSV	305°, 72%, 64%
XYZ	21.8754, 11.9964, 31.7344
YIQ	92.7080, 35.3390, 58.9150

Conversions

Conversions Part 2

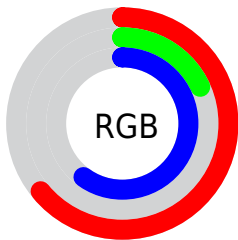
Format	Color
R _{YB}	163, 45, 154
Decimal	10694042
CIE Lab	41.21, 59.82, -33.96
CIE LCh	41, 68.788, 330.412
Yxy	11.9964, 0.3334, 0.1829
Android (android.graphics.Color)	4288884122 (0xFFA32D9A)
YUV	92.7080, 30.2170, 61.6461
Hunter-Lab	34.6358, 52.1249, -30.0782

Details

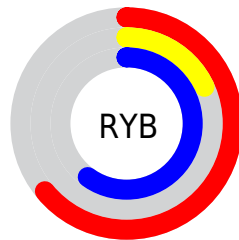
The XYZ color **21.8754, 11.9964, 31.7344** is a dark color, and the websafe version is hex **993399**. A complement of this color would be **14.8458, 27.0192, 7.9236**, and the grayscale version is **10.2635, 10.7980, 11.7590**.

A 20% lighter version of the original color is **46.0788, 29.4783, 63.5829**, and **8.4617, 4.0851, 12.9129** is the 20% darker color. If you saturate the color by 10%, you get **21.2664, 10.9429, 31.0232**, and if you desaturate by 10%, it is **22.7265, 13.5316, 32.5318**.

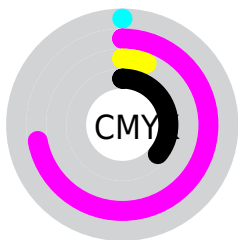
Distribution



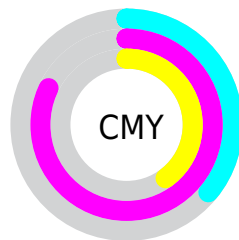
- Red (64%)
- Green (18%)
- Blue (60%)



- Red (64%)
- Yellow (18%)
- Blue (60%)



- Cyan (0%)
- Magenta (72%)
- Yellow (6%)
- Black (36%)





- Cyan (36%)
- Magenta (82%)
- Yellow (40%)

Brightness & Saturation Gradients


These gradients show how the XYZ color 21.8754, 11.9964, 31.7344 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 21.8754, 11.9964, 31.7344 by changing the saturation by 10% instead.


 21.8754, 11.9964,
31.7344


 21.8754, 11.9964,
31.7344


254.5395,
204.3815, 324.3629


 13.8815, 6.7412,
20.8956


 46.0204, 29.4885,
63.4875


 8.1194, 3.3008,
12.8572


 62.9021, 42.4943,
85.2389


 4.2239, 1.2907,
7.2007


 83.4771, 58.8524,
111.4649

 1.8296, 0.1340,
3.5076

 108.1109, 78.9472,
142.5841

 0.5354, 0.0000,
1.3593

 137.1686,
103.1631, 179.0149

 0.0000, 0.0000,
0.1097

 171.0157,

 0.0000, 0.0000,

131.8845, 221.1760

0.0000

210.0176,
165.4958, 269.4858

■ 21.8754, 11.9964,
31.7344

■ 21.8754, 11.9964,
31.7344

■ 21.2664, 10.9429,
31.0232

■ 22.7265, 13.5316,
32.5318

■ 20.8686, 10.3106,
30.3875

■ 23.8430, 15.5964,
33.4229

■ 20.6553, 10.0070,
29.9371

■ 25.2472, 18.2347,
34.4152

■ 26.9584, 21.4854,
35.5152

■ 28.9944, 25.3839,
36.7288

■ 31.3716, 29.9630,
38.0615

■ 34.1053, 35.2533,
39.5185

■ 37.2098, 41.2836,
41.1044

■ 40.6987, 48.0809,
42.8239

Harmonies

Analogous

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



16.9467, 11.9964, 53.6444



21.8754, 11.9964, 31.7344



23.8529, 11.9964, 12.8664

Triad

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



21.8754, 11.9964, 31.7344



11.3337, 11.9964, 0.1585



4.9941, 11.9964, 32.3538

Complementary

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



21.8754, 11.9964, 31.7344



14.8458, 27.0192, 7.9236

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.



4.2747, 11.9964, 13.2596



21.8754, 11.9964, 31.7344



7.2219, 11.9964, 0.8200

Square

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



21.8754, 11.9964, 31.7344



16.7923, 11.9964, 0.7854



4.9546, 11.9964, 3.6818



7.3100, 11.9964, 54.1502

Rectangle

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



21.8754, 11.9964, 31.7344



22.8866, 11.9964, 5.6613



4.9546, 11.9964, 3.6818



4.5937, 11.9964, 25.0991

Sweetspot

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



21.8758, 11.9970, 31.7346



51.9187, 45.4456, 65.7733



9.0111, 5.2750, 35.1941



11.4383, 9.7801, 14.6430



78.6606, 82.7571, 90.1225



14.0027, 14.7319, 16.0430

Same Dimension

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



21.8758, 11.9970, 31.7346



37.6018, 18.8117, 54.8361



18.1607, 10.5109, 12.1711



7.3409, 7.1928, 8.7816



16.0602, 7.7802, 23.3057



0.3439, 0.1660, 0.5235

Inverse Universe

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



21.8758, 11.9970, 31.7346



37.6018, 18.8117, 54.8361



17.0972, 27.9197, 19.7792



7.3409, 7.1928, 8.7816



16.0602, 7.7802, 23.3057



0.3439, 0.1660, 0.5235

Previews

White Background



This preview shows how the XYZ color 21.8754, 11.9964, 31.7344 looks on a white background.

Color Contrast Check

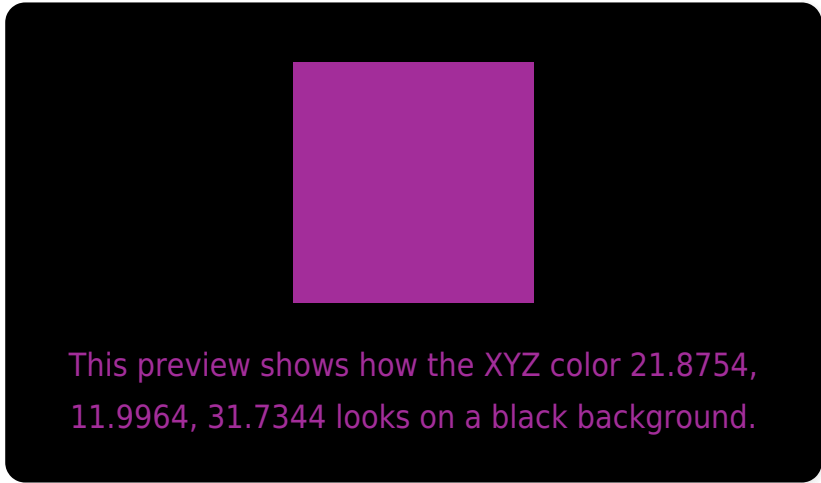
Large Text (above 18pt) WCAG AA ✓ Pass

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

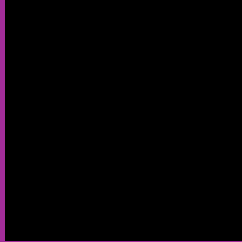
Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail

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

XYZ 21.8754, 11.9964, 31.7344

Background



This preview shows how black text looks on a background with the XYZ color 21.8754, 11.9964, 31.7344.



This preview shows how white text looks on a background with the XYZ color 21.8754, 11.9964,

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

21.8754, 11.9964, 31.7344

Protanopia

14.6895, 12.4567, 55.6630

Deuteranopia

12.6166, 12.3885, 28.9204



Tritanopia

17.0753, 11.9968, 8.2531

Trichromacy



Original Color

21.8754, 11.9964, 31.7344

Protanomaly

13.8736, 10.1044, 46.0189

Deuteranomaly

14.4051, 10.9500, 29.7881

Tritanomaly

18.3219, 11.7138, 14.3920

Monochromacy



Original Color

21.8754, 11.9964, 31.7344

Achromatopsia

10.4043, 10.9462, 11.9204

Achromatomaly

13.1502, 10.2582, 17.5066

CSS Examples

Text

The CSS property to change the color of the text to XYZ 21.8754, 11.9964, 31.7344 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(163, 45, 154)` looks like.

```
.text, #text, p{  
    color:rgb(163, 45, 154)  
}
```

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(163, 45, 154) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(163, 45, 154) }
```

Border

The CSS property to change the border of an element to XYZ 21.8754, 11.9964, 31.7344 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(163, 45, 154) }
```


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

```
.border{ border-color:rgb(163, 45, 154) }
```

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

Here you see how a box with a 4 pixel rgb(163, 45, 154) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(163, 45, 154); -webkit-box-  
shadow:4px 4px 4px 4px rgb(163, 45, 154);  
box-shadow:4px 4px 4px 4px rgb(163, 45,  
154) }
```

Background

The CSS property to change the background color of an element to XYZ 21.8754, 11.9964, 31.7344 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(163, 45, 154) }
```

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

```
.background{ background-color: rgb(163, 45,  
154) }
```

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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