

Converting Colors

XYZ(23.0137, 20.3055, 4.1471)

Have a look what the booklet for
XYZ(23.0137, 20.3055, 4.1471)
contains.

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Color

**XYZ(22.9722, 20.2493,
4.1366)**

Conversions

Conversions Part 1

Format	Color
Hex	AC6F21
RGB	172, 111, 33
RGB Percent	67%, 44%, 13%
CMY	0.3255, 0.5647, 0.8706
CMYK	0.00, 0.35, 0.81, 0.33
HSL	34°, 68%, 40%
HSV	34°, 81%, 67%
XYZ	22.9722, 20.2493, 4.1366
YIQ	120.3470, 61.3940, -11.3260

Conversions

Conversions Part 2

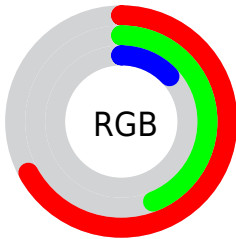
Format	Color
R_{YB}	142, 172, 33
Decimal	11300641
CIE _{Lab}	52.12, 17.84, 50.21
CIE _{LCh}	52, 53.286, 70.439
Yxy	20.2493, 0.4851, 0.4276
Android (android.graphics.Color)	4289490721 (0xFFAC6F21)
YUV	120.3470, -43.0621, 45.2997
Hunter-Lab	44.9992, 12.3760, 26.0492

Details

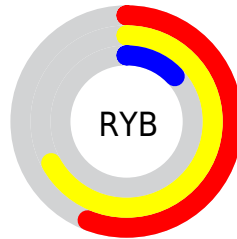
The XYZ color **22.9722, 20.2493, 4.1366** is a dark color, and the websafe version is hex **996600**. A complement of this color would be **12.0761, 11.3069, 40.5754**, and the grayscale version is **18.0844, 19.0262, 20.7195**.

A 20% lighter version of the original color is **47.9761, 43.9903, 14.3499**, and **8.8477, 7.1999, 0.9234** is the 20% darker color. If you saturate the color by 10%, you get **22.0010, 18.5991, 2.9129**, and if you desaturate by 10%, it is **24.1369, 22.0900, 6.0323**.

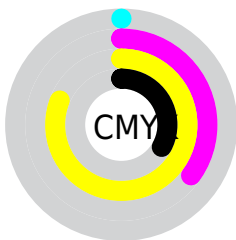
Distribution



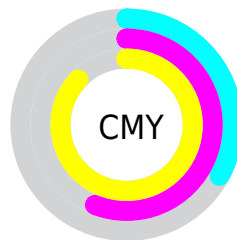
- Red (67%)
- Green (44%)
- Blue (13%)



- Red (56%)
- Yellow (67%)
- Blue (13%)



- Cyan (0%)
- Magenta (35%)
- Yellow (81%)
- Black (33%)





- Cyan (33%)
- Magenta (56%)
- Yellow (87%)

Brightness & Saturation Gradients


These gradients show how the XYZ color 22.9722, 20.2493, 4.1366 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 22.9722, 20.2493, 4.1366 by changing the saturation by 10% instead.


 22.9722, 20.2493,
4.1366


 22.9722, 20.2493,
4.1366


260.1202,
253.2615, 149.7318


 14.6936, 12.5764,
1.7006


 47.8147, 43.8348,
14.3236


 8.6895, 7.1375,
0.3611


 65.1092, 60.5161,
22.9116

 4.5947, 3.5482,
0.0000

 86.1398, 80.9690,
34.3875

 2.0438, 1.4242,
0.0000

 111.2717,
105.5780, 49.1696

 0.6584, 0.2345,
0.0000

 140.8703,
134.7273, 67.6765

 0.0000, 0.0000,
0.0000

 175.3011,

168.8014, 90.3268

214.9292,
208.1847, 117.5391

22.9722, 20.2493,
4.1366

22.9722, 20.2493,
4.1366

22.0010, 18.5991,
2.9129

24.1369, 22.0900,
6.0323

21.2438, 17.2320,
2.2064

25.5121, 24.1280,
8.6863

27.1136, 26.3732,
12.1733

28.9554, 28.8335,
16.5584

31.0500, 31.5163,
21.9004

■ 33.4089, 34.4287,
28.2527

■ 36.0428, 37.5771,
35.6651

■ 38.9620, 40.9678,
44.1838

■ 42.1759, 44.6067,
53.8524

Harmonies

Analogous

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



28.3740, 20.2493, 7.7490



22.9722, 20.2493, 4.1366



17.4095, 20.2493, 3.7448

Triad

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



22.9722, 20.2493, 4.1366



10.6710, 20.2493, 27.9448



26.8747, 20.2493, 53.6837

Complementary

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



22.9722, 20.2493, 4.1366



12.0761, 11.3069, 40.5754

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.



21.2081, 20.2493, 66.6890



22.9722, 20.2493, 4.1366



12.3219, 20.2493, 47.8044

Square

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



22.9722, 20.2493, 4.1366



10.9647, 20.2493, 13.4494



15.9469, 20.2493, 64.1386



30.9051, 20.2493, 33.6993

Rectangle

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



22.9722, 20.2493, 4.1366



14.4108, 20.2493, 4.9757



15.9469, 20.2493, 64.1386



25.0581, 20.2493, 59.3627

Sweetspot

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



22.9727, 20.2503, 4.1370



59.0042, 60.4988, 46.8682



19.6478, 10.6948, 11.9871



12.5034, 12.7528, 9.3266



82.5889, 86.8899, 94.6231



15.4596, 16.2647, 17.7123

Same Dimension

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



22.9727, 20.2503, 4.1370



38.7363, 31.5956, 4.2503



30.5544, 37.6193, 7.0899



8.3640, 8.7328, 8.4581



15.8644, 12.9343, 1.6604



0.4946, 0.4663, 0.0639

Inverse Universe

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



12.0761, 11.3069, 40.5754



18.3691, 14.9988, 72.7327



8.8635, 4.5166, 39.4341



7.8572, 8.3139, 10.1433



7.4908, 6.1154, 29.8301



0.2635, 0.2803, 0.8482

Previews

White Background



This preview shows how the XYZ color 22.9722, 20.2493, 4.1366 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 22.9722, 20.2493, 4.1366 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 22.9722, 20.2493, 4.1366

Background



This preview shows how black text looks on a background with the XYZ color 22.9722, 20.2493, 4.1366.



This preview shows how white text looks on a background with the XYZ color 22.9722, 20.2493,

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

22.9722, 20.2493, 4.1366

Protanopia

18.4828, 20.3763, 4.7091

Deuteranopia

20.6174, 20.2187, 4.0442



Tritanopia

25.7241, 20.2784, 17.5972

Trichromacy



Original Color

22.9722, 20.2493, 4.1366

Protanomaly

19.9838, 20.2357, 4.5217

Deuteranomaly

21.2783, 20.0418, 4.0433

Tritanomaly

24.4982, 20.2539, 10.8018

Monochromacy



Original Color

22.9722, 20.2493, 4.1366

Achromatopsia

17.8524, 18.7821, 20.4537

Achromatomaly

18.7702, 18.9161, 11.8944

CSS Examples

Text

The CSS property to change the color of the text to XYZ 22.9722, 20.2493, 4.1366 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(172, 111, 33)` looks like.

```
.text, #text, p{  
    color:rgb(172, 111, 33)  
}
```

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(172, 111, 33) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(172, 111, 33) }
```

Border

The CSS property to change the border of an element to XYZ 22.9722, 20.2493, 4.1366 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(172, 111, 33) }
```


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

```
.border{ border-color:rgb(172, 111, 33) }
```

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

Here you see how a box with a 4 pixel `rgb(172, 111, 33)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(172, 111, 33); -webkit-box-  
shadow:4px 4px 4px 4px rgb(172, 111, 33);  
box-shadow:4px 4px 4px 4px rgb(172, 111,  
33) }
```

Background

The CSS property to change the background color of an element to XYZ 22.9722, 20.2493, 4.1366 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(172, 111, 33) }
```

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

```
.background{ background-color: rgb(172,  
111, 33) }
```

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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