

Converting Colors

XYZ(29.9681, 47.1749, 22.6981)

Have a look what the booklet for
XYZ(29.9681, 47.1749, 22.6981)
contains.

XYZ(29.9416, 47.1582, 22.5633)	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(29.9416, 47.1582,
22.5633)**

Conversions

Conversions Part 1

Format	Color
Hex	66CC6F
RGB	102, 204, 111
RGB Percent	40%, 80%, 44%
CMY	0.6000, 0.2000, 0.5647
CMYK	0.50, 0.00, 0.46, 0.20
HSL	125°, 50%, 60%
HSV	125°, 50%, 80%
XYZ	29.9416, 47.1582, 22.5633
YIQ	162.9000, -30.9390, -50.5470

Conversions

Conversions Part 2

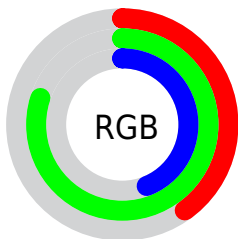
Format	Color
RYB	102, 196, 204
Decimal	6737007
CIELab	74.29, -48.97, 37.32
CIELCh	74, 61.573, 142.690
Yxy	47.1582, 0.3004, 0.4732
Android (android.graphics.Color)	4284927087 (0xFF66CC6F)
YUV	162.9000, -25.5867, -53.4093
Hunter-Lab	68.6718, -42.3479, 28.5895

Details

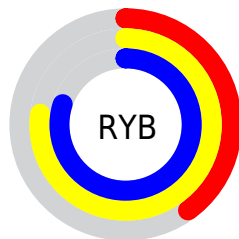
The XYZ color **29.9416, 47.1582, 22.5633** is a dark color, and the websafe version is hex **66CC66**. A complement of this color would be **39.5050, 26.2811, 54.6217**, and the grayscale version is **34.8940, 36.7112, 39.9784**.

A 20% lighter version of the original color is **56.7589, 81.5713, 47.8753**, and **12.5042, 22.3032, 8.0608** is the 20% darker color. If you saturate the color by 10%, you get **26.9882, 45.7433, 17.6246**, and if you desaturate by 10%, it is **33.6794, 48.9556, 28.6538**.

Distribution



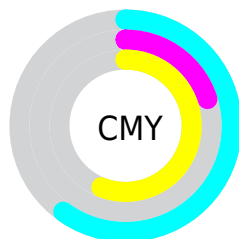
- Red (40%)
- Green (80%)
- Blue (44%)



- Red (40%)
- Yellow (77%)
- Blue (80%)



- Cyan (50%)
- Magenta (0%)
- Yellow (46%)
- Black (20%)



- Cyan (60%)
- Magenta (20%)
- Yellow (56%)

Brightness & Saturation Gradients

These gradients show how the XYZ color 29.9416, 47.1582, 22.5633 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 29.9416, 47.1582, 22.5633 by changing the saturation by 10% instead.

■ 29.9416, 47.1582,
22.5633

■ 29.9416, 47.1582,
22.5633

293.5469,
375.4456, 278.5229

■ 19.9421, 33.1607,
14.0691

■ 58.9571, 85.9497,
48.5893

■ 12.4610, 22.2496,
8.0295

■ 78.7038, 111.5126,
66.9583

■ 7.1329, 14.0404,
4.0258

■ 102.4303,
141.6993, 89.4559

■ 3.5924, 8.1488,
1.6395

■ 130.5019,
176.8944, 116.5007

■ 1.4742, 4.1903,
0.3188

163.2840,
217.4822, 148.5113

■ 0.3082, 1.7806,
0.0000

201.1420,

■ 0.0000, 0.4750,

263.8470, 185.9061

0.0000

244.4411,
316.3734, 229.1038

■ 0.0000, 0.0000,
0.0000

■ 29.9416, 47.1582,
22.5633

■ 29.9416, 47.1582,
22.5633

■ 26.9882, 45.7433,
17.6246

■ 33.6794, 48.9556,
28.6538

■ 24.7600, 44.6778,
13.7624

■ 38.2486, 51.1541,
35.9590

■ 23.1947, 43.9327,
10.8973

■ 43.6963, 53.7782,
44.5409

■ 22.2182, 43.4716,
8.9375

■ 50.0654, 56.8487,
54.4564

■ 21.7030, 43.2313,
7.7730

■ 57.3959, 60.3851,
65.7590

■ 65.7252, 64.4057,
78.4992

■ 75.0891, 68.9278,
92.7251

■ 80.8838, 71.6676,
104.1779

Harmonies

Analogous

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



37.1067, 47.1582, 13.1526



29.9416, 47.1582, 22.5633



26.8593, 47.1582, 43.9784

Triad

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



29.9416, 47.1582, 22.5633



42.1696, 47.1582, 138.5885



67.4546, 47.1582, 31.2483

Complementary

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



29.9416, 47.1582, 22.5633



39.5050, 26.2811, 54.6217

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.



69.4083, 47.1582, 59.4964



29.9416, 47.1582, 22.5633



53.5398, 47.1582, 130.5675

Square

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



29.9416, 47.1582, 22.5633



33.1246, 47.1582, 116.6507



63.9618, 47.1582, 97.8385



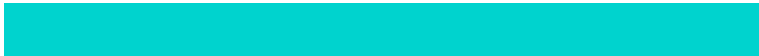
58.9935, 47.1582, 16.5337

Rectangle

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



29.9416, 47.1582, 22.5633



27.1065, 47.1582, 65.9281



63.9618, 47.1582, 97.8385



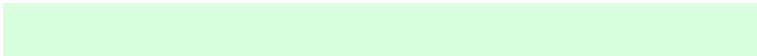
68.9452, 47.1582, 39.0923

Sweetspot

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



29.9428, 47.1602, 22.5644



77.2359, 91.4074, 81.3700



46.6281, 55.8162, 20.8867



16.0586, 19.3369, 16.6791



0.0000, 0.0000, 0.0000



20.3446, 21.4041, 23.3091

Same Dimension

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



29.9428, 47.1602, 22.5644



44.3630, 75.5942, 28.6245



33.5508, 48.6034, 41.5642



11.1076, 12.5528, 12.1239



13.6744, 27.2151, 4.9705



0.7196, 1.4097, 0.3311

Inverse Universe

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



39.5050, 26.2811, 54.6217



61.9431, 37.1434, 87.5142



34.7269, 24.3699, 29.4608



11.6432, 11.3860, 13.9216



21.2694, 10.3184, 30.2011



1.1101, 0.5374, 1.6256

Previews

White Background



This preview shows how the XYZ color 29.9416, 47.1582, 22.5633 looks on a white 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

Black Background



This preview shows how the XYZ color 29.9416, 47.1582, 22.5633 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 ✓ Pass

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

XYZ 29.9416, 47.1582, 22.5633

Background



This preview shows how black text looks on a background with the XYZ color 29.9416, 47.1582, 22.5633.

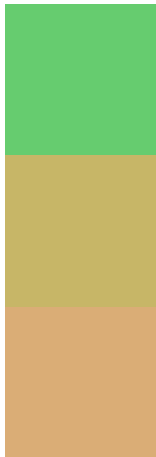


This preview shows how white text looks on a background with the XYZ color 29.9416, 47.1582,

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

29.9416, 47.1582, 22.5633

Protanopia

42.7293, 46.5773, 19.5702

Deuteranopia

47.1270, 46.1006, 23.5540



Tritanopia

38.7673, 46.9791, 66.6991

Trichromacy



Original Color

29.9416, 47.1582, 22.5633



Protanomaly

36.3248, 45.7600, 20.5537



Deuteranomaly

38.1395, 44.7489, 22.8469



Tritanomaly

34.7115, 46.6626, 46.7125

Monochromacy



Original Color

29.9416, 47.1582, 22.5633



Achromatopsia

34.8123, 36.6253, 39.8849



Achromatomaly

31.9389, 39.5171, 32.3298

CSS Examples

Text

The CSS property to change the color of the text to XYZ 29.9416, 47.1582, 22.5633 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(102, 204, 111)` looks like.

```
.text, #text, p{  
    color:rgb(102, 204, 111)  
}
```

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(102, 204, 111) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(102, 204, 111) }
```

Border

The CSS property to change the border of an element to XYZ 29.9416, 47.1582, 22.5633 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(102, 204, 111) }
```


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

```
.border{ border-color:rgb(102, 204, 111) }
```

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

Here you see how a box with a 4 pixel `rgb(102, 204, 111)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(102, 204, 111); -webkit-box-  
shadow:4px 4px 4px 4px rgb(102, 204, 111);  
box-shadow:4px 4px 4px 4px rgb(102, 204,  
111) }
```

Background

The CSS property to change the background color of an element to XYZ 29.9416, 47.1582, 22.5633 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(102, 204, 111) }
```

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

```
.background{ background-color: rgb(102,  
204, 111) }
```

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