I'm not a robot



```
Conversion calculators can help you convert one unit of measurement include SI (International System of Units), U.S. customary units, and some British measurement units. Our conversion calculators are useful in science, engineering, finance, and everyday life when converting between different
systems of unit measurement. Use unit conversion calculators to convert between measurements of length, weight, volume, temperature, currency, and more. You can also convert between decimal, percent and fractions, as well as numbers to words with our conversion calculators. Common examples of unit conversion include length or distance
where you might want to convert measurements from miles to kilometers, or inches to centimeters, or inches to centimeters. Temperature unit converts temperature converts temperature unit converts temp
given the current published exchange rates. While our conversion calculators do the mathematical conversions behind the scenes, you can read more on our calculator pages about how to do unit conversions. Typically you will multiply or divide a unit by a numerical unit conversion factor and round off resulting decimals as appropriate. We also
 provide charts of unit conversion factors where possible. Please provide values below to convert Fahrenheit (°C), or vice versa. Definition: The Fahrenheit (symbol: °F) is a unit of temperature at which water freezes, 32°F, and the
boiling point of water, 212°F, both at sea level and standard atmospheric pressure. The interval between the freezing and boiling point is divided into 180 equal parts. History/Origin: The Fahrenheit scale was developed based on a measurement proposed in 1724 by the German physicist Daniel Gabriel Fahrenheit. He initially based the scale on an
equal ice-salt mixture, selecting the values of 30°F for the freezing point of water, and 90°F for normal body temperature was 96°F. He chose these values to simplify the degree markings he could make on his instruments, since this difference between the
temperatures allowed him to mark degree lines by bisecting the interval six times. Later, when using the freezing and boiling points of water as fixed reference points for thermometers became popular, the scale was slightly re-defined such that there would be 180 degrees separating freezing and boiling point, resulting in normal human body
temperature being approximately 98°F, rather than Fahrenheit's 96°F. Current use: Until the 1960's the Fahrenheit scale was the primary scale used in English-speaking countries around the world use the Celsius temperature scale instead, many having made the change during their metrication processes (conversion to using
the metric system of units). However, the Fahrenheit scale is still used as the official temperature scale in a number of countries, including the United States (as well as its unincorporated territories), the Bahamas, Belize, the Cayman Islands, and a few others. Celsius (symbol: °C) is an SI (International System of Units) derived
unit of temperature. It is defined based on the SI unit of temperature, the kelvin. The Celsius and Kelvin scales are precisely related, with a one-degree change in Celsius being equal to a one degree-change in the unit of temperature. It is defined based on the SI unit of temperature, the kelvin. The Celsius and Kelvin scales are precisely related, with a one-degree change in Celsius being equal to a one degree-change in the unit of temperature.
J·K-1, a unit equivalent to kg·m2·s-2·K-1. The kilogram, meter, and second, are defined based on Planck's constant, h, the speed of light, c, and cesium frequency, ΔνCs. History/origin: From 1743 until 1954, the Celsius scale was based on 0°C for the freezing point of water and 100 °C for the boiling point of water, both at a pressure of one standard
atmosphere, using mercury as the working material. This was not always the case, and originally 0°C was defined as the boiling point of snow. Celsius as a unit and a scale was not widely used until this original definition was inverted. In 1954, the unit, "degree Celsius," as well as the Celsius scale
were again re-defined to instead be based on absolute zero (-273.15 °C) and the triple point of VSMOW (specially purified water). This is the definitions of the second, meter, and kilogram. Current use: The Celsius scale replaced the Fahrenheit scale in most countries
in the mid to late 20th century. Almost all countries around the world use this scale, except for those in which the metric system has not been adopted, such as the United States. Even in countries like the United States however, Celsius is widely used within the scientific community—it just is not widely used in everyday temperature
references.Fahrenheit [°F]Celsius [°C]0.01 °F-17.7722222222 °C2 °F-16.6666666667 °C50 °F-16.6666666667 °C50 °F-16.6666666667 °C50 °F-16.2222222222 °C1 °F-17.77222222222 °C2 °F-16.66666666667 °C50 °F-17.77222222222 °C2 °F-16.6666666667 °C50 °F-17.772222222222 °C2 °F-16.6666666667 °C50 °F-17.772222222222 °C2 °F-16.6666666667 °C50 °F-17.772222222222 °C2 °F-16.6666666667 °C50 °F-17.772222222222 °C2 °F-16.6666666667 °C50 °F-17.77222222222222 °C2 °F-16.66666666667 °C50 °F-17.772222222222 °C20 °F-16.66666666667 °C50 °F-17.772222222222 °C20 °F-16.66666666667 °C50 °F-17.7722222222222 °C20 °F-16.666666666667 °C50 °F-17.7722222222222 °C20 °F-16.66666666667 °C50 °F-17.7722222222222 °C20 °F-16.666666666667 °C50 °F-17.77222222222222 °C20 °F-16.666666666667 °C50 °F-17.772222222222222 °C20 °F-16.666666666667 °C50 °F-17.77222222222222 °C20 °F-16.66666666667 °C50 °F-17.7722222222222222 °C20 °F-16.666666666667 °C50 °F-17.772222222222222 °C20 °F-16.666666666667 °C50 °F-17.77222222222222 °C20 °F-16.666666666667 °C50 °F-17.77222222222222 °C20 °F-16.666666666667 °C50 °F-17.77222222222222 °C20 °F-16.66666666667 °C50 °F-17.7722222222222 °C20 °F-17.7722222222222 °C20 °F-17.7722222222222 °C20 °F-17.7722222222222 °C20 °F-17.7722222222222 °C20 °F-17.77222222222222 °C20 °F-17.7722222222222 °C20 °F-17.7722222222222 °C20 °F-17.7722222222222 °C20 °F-17.77222222222222 °C20 °F-17.77222222222222 °C20 °F-17.77222222222222 °C20 °F-17.7722222222222 °C20 °F-17.7722222222222 °C20 °F-17.7722222222222 °C20 °F-17.7722222222222 °C20 °F-17.772222222222222 °C20 °F-17.7722222222222 °C20 °F-17.77222222222222 °C20 °F-17.77222222222222 °C20 °F-17.7722222222222 °C20 °F-17.7722222222222 °C20 °
the temperature in degrees Fahrenheit to degrees Fahrenheit to degrees Celsius. There are a few formulas that you can use to convert a temperature in degrees Fahrenheit to degrees Celsius. There are a few formulas that you can use to convert a temperature in degrees Fahrenheit to degrees Celsius.
the temperature in degrees Fahrenheit minus 32, times 5, divided by 9. Insert the °F temperature measurement in the formula and then solve to find the result. For example, let's convert 50 °F = 18 × 5/9 50 °F =
actually defines the following formula for the conversion:[1] °C = (°F - 32) ÷ 1.8 Ultimately this is a reduced version of the widely accepted formula shown above. How to Convert a Temperature Without a Calculator To convert Fahrenheit to Celsius without a Calculator, you can use a simple rule of thumb. Subtract 30 from the temperature, then
divide the result in half. Note that this is not a precise method, but rather a quick shortcut to get a rough convert 70 °F to Celsius. Start by subtracting 30 from the temperature. 70 °F - 30 = 40 Then, divide it in half. 40 ÷ 2 = 20 So, 70 °F is roughly equal to 20
 °C using this method. The Fahrenheit and Celsius scales are both used to measure temperature. Read on to learn more about each of them. Are you converting temperature Points In °F and °C Temperature reference points expressed in degrees
Fahrenheit and Celsius Temperature Degrees Fahrenheit Degrees Fahrenheit Scale is a temperature Scale that defines the melting point of Water 22 °F100 °C Surface of the Sun10,100 °F5,600 °C Triple Point of Water 22 °F100 °C Surface of the Sun10,100 °F5,600 °C Triple Point of Water 22 °F100 °C Surface of the Sun10,100 °F5,600 °C Triple Point of Water 22 °F100 °C Surface of the Sun10,100 °F5,600 °C Triple Point of Water 22 °F100 °C Surface of the Sun10,100 °F5,600 °C Triple Point of Water 22 °F100 °C Surface of the Sun10,100 °F5,600 °C Triple Point of Water 22 °F100 °C Surface of the Sun10,100 °F5,600 °C Triple Point of Water 22 °F100 °C Surface of the Sun10,100 °F5,600 °C Triple Point of Water 22 °F100 °C Surface of the Sun10,100 °F5,600 °C Triple Point of Water 22 °F100 °C Surface of the Sun10,100 °F5,600 °C Triple Point of Water 22 °F100 °C Surface of the Sun10,100 °F5,600 °C Triple Point of Water 22 °F100 °C Surface of the Sun10,100 °F5,600 °C Triple Point of Water 22 °F100 °C Surface of the Sun10,100 °C Surface of the Sun10,100 °C Surface of the Sun10,100 °C Sun10,100 °C Surface of the Sun10,100 °C Sun1
degrees and the boiling point of water at 212 degrees.[2] There are 180 intervals between 32 °F and 212 °F, each corresponding to one degree. The degree Fahrenheit can be abbreviated as F; for example, 1 degree Fahrenheit can be written as 1 °F. Learn more about Fahrenheit. The
Celsius temperature scale, also commonly referred to as the centigrade scale, is defined in relation to the kelvin. Specifically, degrees Celsius is sometimes also referred to as a degree centigrade. Celsius can be
abbreviated as C; for example, 1 degree Celsius can be written as 1 °C. Learn more about Celsius. The chart below shows various temperatures in degrees Fahrenheit and the equivalent temperature, Oceanic and Atmospheric Administration
National Weather Service, Fahrenheit, Fahrenheit is a temperature scale named after the German physicist Daniel Gabriel Fahrenheit (°F) and boils at 212 degrees Fahrenheit at standard atmospheric pressure. This contrasts with the Celsius scale, commonly used in
physics and other sciences, where water freezes at 0 degrees Celsius (°C) and boils at 100 degrees Celsius. The Fahrenheit is a scale used to measure temperature, represented by the symbol °F. It was developed by the German physicist
Daniel Gabriel Fahrenheit in the early 18th century. On the Fahrenheit at standard atmospheric pressure. This scale is primarily used in the United States and a few other countries, whereas most of the world uses the Celsius scale (°C) for
temperature measurements. To convert a temperature from Celsius to Fahrenheit, you can use the following formula: F = 9/5C+32 Where: F represents the temperature in degrees Fahrenheit, C represents the temperature in degrees Fahrenheit, C represents the temperature in degrees Fahrenheit, which is the temperature in degrees Fahrenheit, C represents the temperature in degree Fahrenheit, C repres
equivalent temperature in Fahrenheit. Let's say you have a temperature of 20 degrees Celsius and you want to convert it to Fahrenheit Scale: The Fahrenheit temperature scale
is a way of measuring temperatures where 32°F is the freezing point of water and 212°F is the boiling point at standard atmospheric pressure. Daily Use: In everyday situations, especially in the United States, people use Fahrenheit to report weather temperatures. For instance, a comfortable room temperature might be around 68°F to 72°F.
Conversion: If you need to convert Fahrenheit to Celsius, the formula is C = 95(F-32) Where CC is the temperature in Fahrenheit (°F)Developed by Anders Celsius (1701-1744)Daniel Gabriel Fahrenheit (1686-1736)Introduced Mid-18th century Early 18th century Base Unit Degree
CelsiusDegree FahrenheitFreezing Point of Water0°C32°FBoiling Point of Water100°C at standard atmospheric pressureIncrement SizeOne degree Fahrenheit is smaller; it takes more degrees to cover the same change in
temperature Usage Used worldwide, except in the United States and a few other countries Primarily used in the United States, Bahamas, Belize, and a few other countries Primarily used in the United States and a few other countries Primarily used in the United States, Bahamas, Belize, and a few other countries Primarily used in the United States and a few other countries Primarily used in the United States and a few other countries Primarily used in the United States and a few other countries Primarily used in the United States and a few other countries Primarily used in the United States and a few other countries Primarily used in the United States and a few other countries Primarily used in the United States and a few other countries Primarily used in the United States and a few other countries Primarily used in the United States and a few other countries Primarily used in the United States and a few other countries Primarily used in the United States and a few other countries Primarily used in the United States and a few other countries Primarily used in the United States and a few other countries Primarily used in the United States and a few other countries Primarily used in the United States and a few other countries Primarily used in the United States and a few other countries Primarily used in the United States and a few other countries Primarily used in the United States and a few other countries Primarily used in the United States and a few other countries Primarily used in the United States and a few other countries Primarily used in the United States and a few other countries Primarily used in the United States and a few other countries Primarily used in the United States and a few other countries Primarily used in the United States and a few other countries Primarily used in the United States and a few other countries Primarily used in the United States and a few other countries Primarily used in the United States and a few other countries Primarily used in the United States and a few other countries
stops. It's a theoretical limit in thermodynamics, representing the minimum internal energy a thermodynamic system can have. In the Fahrenheit scale, absolute zero is approximately -459.67 degrees Fahrenheit values in other temperature
scales. Absolute zero is primarily used in scientific contexts, especially in physics and chemistry, to describe extreme conditions or theoretical states. The Fahrenheit scale is marked by several key points that relate to everyday phenomena, particularly in terms of water's behavior and human comfort levels. Here's an overview of some significant
points on the Fahrenheit scale: Absolute Zero: -459.67°F (-273.15°C). This is the temperature at which water freezes. Body Temperature at which water freezes. Body Temperature at which water freezes. Bround 98.6°F (37°C). This is the temperature for humans. Boiling
 Point of Water: 212°F (100°C) at sea level. This is the temperature at which water boils. The Fahrenheit scale is divided into degrees, where each degree is 1/180 of the interval between the freezing point and boiling point of water at sea level. Here are some additional common reference points: Room Temperature: Typically around 68°F to 72°F
(20°C to 22°C). Cold Day: Temperatures around or below 32°F (0°C) are typically considered to warmer weather. Hot Day: Temperatures around or above 90°F (32°C) are generally considered hot. Public Understanding: In regions where Fahrenheit is used, people are accustomed to interpreting weather
conditions based on this scale. For example, temperatures in the 70s (°F) are generally perceived as comfortable, while temperatures dropping to the 30s or rising to the 90s carry specific, commonly understood connotations about the need for heating or cooling. Cultural Relevance: In the United States, people often discuss weather and temperatures
changes in Fahrenheit, making it a culturally relevant scale for everyday conversations. International Communication: Scientists typically use Celsius or Kelvin in academic and international contexts. Thus, students in Fahrenheit-using countries need to learn to convert between scales and understand scientific concepts in multiple units, which can
add a layer of complexity to science education. Precision and Scale: The finer division in the Fahrenheit is smaller than a degree Fahrenh
Readings: In the medical field, especially in the U.S., body temperature is usually measured in Fahrenheit. Thus, a normal body temperature is around 98.6°F, and slight deviations are easily recognizable in this scale. Public Health Communication: Health advisories about temperature-related conditions (like hypothermia or heat strokes) are given in
Fahrenheit in the U.S., which is crucial for public understanding and safety. Cooking Instructions: Recipes in the U.S. are usually written with Fahrenheit temperatures. Understanding these temperatures are often
communicated in Fahrenheit to ensure safety against foodborne illnesses. HVAC Settings: Heating, ventilation, and air conditioning systems in the U.S. are calibrated in Fahrenheit, which influences how settings are adjusted in residential and commercial buildings. Material Science: The behavior of materials at different temperatures might be tested
and documented using the Fahrenheit scale in dustries. The Fahrenheit scale is not inherently more accurate, but it is more precise because it uses a smaller interval between degrees. This can make it useful in fields requiring fine temperature adjustments. One practical advantage is its precision without using decimals, which is
useful in weather forecasting and HVAC settings. It's also historically and culturally embedded in the U.S., making it a familiar reference for most residents. Extreme temperatures, like those in Death Valley or Arctic regions, are reported in Fahrenheit in the U.S., providing immediate context and relevance for residents familiar with the scale. Add
 it in Celsius? Choose the correct answer How do you convert Fahrenheit to Celsius? Choose the correct answer Choose the correct answer Which of the following is a higher temperature? Choose the correct answer At what Fahrenheit temperature does water boil at sea level? Choose the correct
 answer If the temperature outside is 95°F, what is it in Celsius? Choose the correct answer What is the equivalent of 50°C in Fahrenheit? Choose the correct answer For daily wit & wisdom, sign up for the Almanac newsletter. What is 70°F in Celsius? What is 0°C in Fahrenheit? Here is the temperature conversion formula and chart to
 territories) and several Caribbean nations. On the Fahrenheit scale, water freezes at 32°F and boils at 212°F (at sea level). The Celsius temperature scale—originally called centigrade and later renamed for Swedish astronomer Anders Celsius—is used almost everywhere else in the world. On the Celsius scale, the freezing point of water is 0°C, and the
boiling point of water is 100°C (at sea level). Other Conversion Energy and power conversion Energy and En
app Metric Conversion Table Fahrenheit conversion Celsius to Fahrenheit (disambiguation). The Fahrenheit for other uses, see Fahrenheit for other uses, see
Fahrenheit (1686-1736).[1] It uses the degree Fahrenheit (symbol: °F) as the unit. Several accounts of how he originally defined his scale exist, but the originally defined his scale exist, but the originally defined his scale exist, but the original paper suggests the lower defining point, 0 °F, was established as the freezing temperature of a solution of brine made from a mixture of water, ice, and ammonium chloride (a salt).[2][3] The
other limit established was his best estimate of the average human body temperature, originally set at 90 °F, then 96 °F (about 2.6 °F less than the modern value due to a later redefinition of the scale).[2] FahrenheitThermometer with Fahrenheit (marked on outer bezel) and Celsius (marked on inner dial) degree units. General information Unit
systemImperial/US customaryUnit ofTemperatureSymbol°FNamed afterDaniel Gabriel Fahrenheit Conversions x °F in ...... corresponds to ... SI base units 5/9(x + 459.67) K SI derived units 5/9(x - 32) °C Imperial/US absolute scale x + 459.67 °Ra For much of the 20th century, the Fahrenheit conversions x °F in ...... corresponds to ... SI base units 5/9(x - 32) °C Imperial/US absolute scale x + 459.67 °Ra For much of the 20th century, the Fahrenheit conversions x °F in ...... corresponds to ...
 separation: the temperature at which pure water freezes was defined as 32 °F and the boiling point of water was defined using the Kelvin scale.[4][5] It continues to be used in the United States (including its unincorporated territories), its freely
 associated states in the Western Pacific (Palau, the Federated States of Micronesia and the Marshall Islands), the Cayman Islands, and Liberia. Fahrenheit is commonly still used alongside the Celsius scale in other countries that use the U.S. metrological service, such as Antiqua and Barbuda, Saint Kitts and Nevis, the Bahamas, and Belize. A handfu
of British Overseas Territories, including the Virgin Islands, Montserrat, Anguilla, and Bermuda, also still use both scales.[6] All other countries now use Celsius ("centigrade" until 1948), which was invented 18 years after the Fahrenheit scale.[7] Fahrenheit temperature conversion formulae from Fahrenheit to Fahrenheit Celsius
x ^{\circ}F = (x - 32) \times 5/9 ^{\circ}C x ^{\circ}C = (x \times 9/5 + 32) ^{\circ}F Kelvin x ^{\circ}F = (x + 459.67) ^{\circ}F For temperature intervals rather than specific temperatures, 1 ^{\circ}F = 1 ^{\circ}R = 5/9 ^{\circ}C = 5/9 KConversion between temperature scales Historically, on the Fahrenheit scale the freezing
originally defined to be 100 degrees apart. A temperature interval of 5/9 k and of 5/9 k and of 5/9 c. The Fahrenheit and Celsius scales intersect
numerically at -40 in the respective unit (i.e., -40 °F, corresponds to -40 °C). Absolute zero is 0 °K, -273.15 °C, or -459.67 °F. The Rankine temperature scale matches the Celsius scale, except
that absolute zero is 0 K.[8] The combination of degree symbol (°) followed by an uppercase letter F is the conventional symbol (and separated from it with a space) denotes a specific temperature point (e.g., "Gallium melts at 85.5763 °F"). A difference between temperatures or
an uncertainty in temperature is also conventionally written the same way as well, e.g., "The output of the heat exchanger experiences an increase of 50 F°" (reversing the symbol order) to indicate temperature differences. Similar
conventions exist for the Celsius scale, see Celsius § Temperatures and intervals. [9][10] For an exact conversion between degrees Fahrenheit, c the value in degrees Fahrenheit, c the value in degrees Fahrenheit and Celsius, and k the value in kelvins: f °F to c °C: c
 = f - 32/1.8 \text{ c} °C to f °F: f = c \times 1.8 + 32 \text{ f} °F to k K: k = f + 459.67/1.8 \text{ k} K to f °F: f = k \times 1.8 - 459.67/1.8 \text{ k} K to f °F: f = k \times 1.8 - 459.67/1.8 \text{ k} K to f °F: f = k \times 1.8 - 459.67/1.8 \text{ k} K to f °F: f = k \times 1.8 - 459.67/1.8 \text{ k} K to f °F: f = k \times 1.8 - 459.67/1.8 \text{ k} K to f °F: f = k \times 1.8 - 459.67/1.8 \text{ k} K to f °F: f = k \times 1.8 - 459.67/1.8 \text{ k} K to f °F: f = k \times 1.8 - 459.67/1.8 \text{ k} K to f °F: f = k \times 1.8 - 459.67/1.8 \text{ k} K to f °F: f = k \times 1.8 - 459.67/1.8 \text{ k} K to f °F: f = k \times 1.8 - 459.67/1.8 \text{ k} K to f °F: f = k \times 1.8 - 459.67/1.8 \text{ k} K to f °F: f = k \times 1.8 - 459.67/1.8 \text{ k} K to f °F: f = k \times 1.8 - 459.67/1.8 \text{ k} K to f °F: f = k \times 1.8 - 459.67/1.8 \text{ k} K to f °F: f = k \times 1.8 - 459.67/1.8 \text{ k} K to f °F: f = k \times 1.8 - 459.67/1.8 \text{ k} K to f °F: f = k \times 1.8 - 459.67/1.8 \text{ k} K to f °F: f = k \times 1.8 - 459.67/1.8 \text{ k} K to f °F: f = k \times 1.8 - 459.67/1.8 \text{ k} K to f °F: f = k \times 1.8 - 459.67/1.8 \text{ k} K to f °F: f = k \times 1.8 - 459.67/1.8 \text{ k} K to f °F: f = k \times 1.8 - 459.67/1.8 \text{ k} K to f °F: f = k \times 1.8 - 459.67/1.8 \text{ k} K to f °F: f = k \times 1.8 - 459.67/1.8 \text{ k} K to f °F: f = k \times 1.8 - 459.67/1.8 \text{ k} K to f °F: f = k \times 1.8 - 459.67/1.8 \text{ k} K to f °F: f = k \times 1.8 - 459.67/1.8 \text{ k} K to f °F: f = k \times 1.8 - 459.67/1.8 \text{ k} K to f °F: f = k \times 1.8 - 459.67/1.8 \text{ k} K to f °F: f = k \times 1.8 - 459.67/1.8 \text{ k} K to f °F: f = k \times 1.8 - 459.67/1.8 \text{ k} K to f °F: f = k \times 1.8 - 459.67/1.8 \text{ k} K to f °F: f = k \times 1.8 - 459.67/1.8 \text{ k} K to f °F: f = k \times 1.8 - 459.67/1.8 \text{ k} K to f °F: f = k \times 1.8 - 459.67/1.8 \text{ k} K to f °F: f = k \times 1.8 - 459.67/1.8 \text{ k} K to f °F: f = k \times 1.8 - 459.67/1.8 \text{ k} K to f = k \times 1.8 - 459.67/1.8 \text{ k} K to f = k \times 1.8 - 459.67/1.8 \text{ k} K to f = k \times 1.8 - 459.67/1.8 \text{ k} K to f = k \times 1.8 - 459.67/1.8 \text{ k} K to f = k \times 1.8 - 459.67/1.8 \text{ k} K to f =
40/1.8 - 40 c °C to f °F: f = (c + 40) × 1.8 - 40 When converting a temperature interval between the Fahrenheit and Celsius scales, only the ratio is used, without any constant (in this case, the interval between the Fahrenheit and Celsius scales, only the ratio is used, without any constant (in this case, the interval between the Fahrenheit and Celsius scales, only the ratio is used, without any constant (in this case, the interval between the Fahrenheit and Celsius): f °F: f = c × 1.8 = k × 1.8 Fahrenheit and Celsius scales, only the ratio is used, without any constant (in this case, the interval between the Fahrenheit and Celsius): f °F: f = c × 1.8 = k × 1.8 Fahrenheit and Celsius scales, only the ratio is used, without any constant (in this case, the interval between the Fahrenheit and Celsius scales, only the ratio is used, without any constant (in this case, the interval between the Fahrenheit and Celsius scales, only the ratio is used, without any constant (in this case, the interval between the Fahrenheit and Celsius scales, only the ratio is used, without any constant (in this case, the interval between the Fahrenheit and Celsius scales, only the ratio is used, without any constant (in this case, the interval between the Fahrenheit and Celsius scales, only the ratio is used, without any constant (in this case, the interval between the Fahrenheit and Celsius scales, only the ratio is used, without any constant (in this case, the interval between the Fahrenheit and Celsius scales, only the ratio is used, without any constant (in this case, the interval between the Fahrenheit and Celsius scales, only the ratio is used, without any constant (in this case, the interval between the Fahrenheit and Celsius scales, only the ratio is used, without any constant (in this case, the interval between the ratio is used, without any constant (in this case, the interval between the ratio is used, without any constant (in this case, the interval between the ratio is used, the ratio is used, without any constant (in t
proposed his temperature scale in 1724, basing it on two reference points of temperature. In his initial scale (which is not the final Fahrenheit scale), the zero point was determined by placing the thermometer in "a mixture of ice, water, and salis Armoniaci[note 1] [transl. ammonium chloride] or even sea salt".[11] This combination forms a eutectic
system, which stabilizes its temperature automatically: 0 °F was defined to be that stable temperature of ice and water "without the aforementioned salts".[11] According to a German story, Fahrenheit
actually chose the lowest air temperature measured in his hometown Danzig (Gdańsk, Poland) in winter 1708-09 as 0 °F, and only later had the need to be able to make this value reproducible using brine.[12][failed verification] According to a letter Fahrenheit wrote to his friend Herman Boerhaave,[13] his scale was built on the work of Ole Rømer,
 whom he had met earlier. In Rømer scale, brine freezes at zero, water freezes and melts at 7.5 degrees, body temperature is 22.5, and water boils at 60 degrees. Fahrenheit multiplied each value by 4 in order to eliminate fractions and make the scale more fine-grained. He then re-calibrated his scale using the melting point of ice and normal human
body temperature (which were at 30 and 90 degrees, so that the melting point of ice would be 32 degrees, and body temperature 96 degrees, so that 64 intervals would separate the two, allowing him to mark degree lines on his instruments by simply bisecting the interval 6 times (since 64 = 26).[14][15] Fahrenheit soon after
observed that water boils at about 212 degrees using this scale.[16] The use of the freezing and boiling points of water as thermometer fixed points were adopted by a committee of the Royal Society led by Henry Cavendish in 1776-77.[17][18] Under this system,
the Fahrenheit scale is redefined slightly so that the freezing point of water was exactly 32 °F, and the boiling point was exactly 212 °F, or 180 degrees higher. It is for this reason that normal human body temperature is approximately 98.6 °F (oral temperature) on the revised scale (whereas it was 90° on Fahrenheit's multiplication of Rømer, and 96° on Fahrenheit's multiplication of Rømer of Rø
on his original scale).[19] In the present-day Fahrenheit scale, 0 °F no longer corresponds to the eutectic temperature of ammonium chloride brine as described above. Instead, that eutectic is at approximately 4 °F on the final Fahrenheit scale.[note 2] The Rankine temperature scale was based upon the Fahrenheit temperature scale, with its zero
representing absolute zero instead. Countries by usage: Fahrenheit (°F) Fahrenheit (°F) and Celsius (°C) The Fahrenheit scale was the primary temperature standard for climatic, industrial and medical purposes in Anglophone countries until the 1960s. In the late 1960s and 1970s, the Celsius scale replaced Fahrenheit in almost all
those countries—with the notable exception of the United States. Fahrenheit is used in the United States, its territories and associated states (all service), as well as the (British) Cayman Islands and Liberia for everyday applications. The Fahrenheit scale is in use in U.S. for all temperature measurements
including weather forecasts, cooking, and food freezing temperatures, however for scientific research the scale is Celsius and Kelvin.[20] Early in the 20th century, Halsey and Dale suggested that reasons for resistance to use the centigrade (now Celsius) system in the U.S. included the larger size of each degree Celsius and the lower zero point in
the Fahrenheit system; and claimed the Fahrenheit scale is more intuitive than Celsius for describing outdoor temperate latitudes, with 100 °F a cold winter day.[21] Canada has passed legislation favoring the International System of Units, while also maintaining legal definitions for traditional
Canadian imperial units.[22] Canadian weather reports are conveyed using degrees Celsius with occasional reference to Fahrenheit especially for cross-border broadcasts. Fahrenheit is still used on virtually all Canadian ovens.[23] Thermometers, both digital and analog, sold in Canadian weather reports are conveyed using degrees Celsius with occasional reference to Fahrenheit especially for cross-border broadcasts. Fahrenheit especially for cross-border broadcasts.
[26] In the European Union, it is mandatory to use Kelvins or degrees Celsius when quoting temperature for "economic, public health, public safety and administrative" purposes, though degrees Fahrenheit may be used alongside degrees Celsius as a supplementary unit.[27] Most British people use Celsius.[28] However, the use of Fahrenheit still
may appear at times alongside degrees Celsius in the print media with no standard convention for when the measurement is included. For example, The Times has an all-metric daily weather page but includes a Celsius-to-Fahrenheit conversion table. [29] Some UK tabloids have adopted a tendency of using Fahrenheit for mid to high temperatures.
[30] It has been suggested that the rationale to keep using Fahrenheit was one of emphasis for high temperatures: "-6 °C" sounds colder than "21 °F", and "94 °F" sounds more sensational than "34 °C".[31] Unicode provides the Fahrenheit symbol at code point U+2109 °F DEGREE FAHRENHEIT. However, this is a compatibility character encoded
 for roundtrip compatibility with legacy encodings. The Unicode standard explicitly discourages the use of this character: "The sequence U+0080 ° DEGREE FAHRENHEIT, and those two sequences should be treated as identical for searching." [32] Energy portal
Outline of metrology and measurement Comparison of temperature scales Degree of frost Metrication ^ "Sal Armoniac" was an impure form of ammonium chloride. The French chemistry, 1675), describing where it occurs naturally and how it can be prepared
artificially. It occurs naturally in the deserts of northern Africa, where it forms from puddles of animal urine. It can be prepared artificially by boiling 5 parts of urine, 1 part of sea salt, and ½ part of sea salt, and
See: Nicolas Lémery, Cours de chymie [...], 7th ed. (Paris, France: Estienne Michallet, 1688), Chapitre XVII: du Sel Armoniack, p. 383, available on-line at Heinrich Heine
 University (Düsseldorf, Germany). ^ Eutectic temperature of ammonium chloride and water is listed as -15.9 °C (3.38 °F) and as -15.4 °C (4.28 °F) in (respectively) Peppin, S. S.; Huppert, H. E.; Worster, M. G. (2008). "Steady-state solidification of aqueous ammonium chloride" (PDF). J. Fluid Mech. 159. Cambridge University Press: 472 (table 1).
 Bibcode:2008JFM...599..465P. doi:10.1017/S0022112008000219. S2CID 30271164. Archived (PDF) from the original on 19 January 2010. Barman, N.; Nayak, A. K.; Chattopadhyay, H. (2021). "Solidification of a Binary Solution (NH4Cl + H2O) on an Inclined Cooling Plate: A Parametric Study" (PDF). Procedia Materials Science. 7: 456 (table 1).
doi:10.1016/j.mspro.2014.07.288. Archived (PDF) from the original on 15 January 2019. A Balmer, Robert T. (2010). Modern Engineering Thermodynamics. Academic Press. p. 9. ISBN 978-0-12-374996-3. Retrieved 17 July 2011. A b "Fahrenheit temperature scale". Encyclopædia Britannica Online. Retrieved 25 September 2015. Thermodynamics are scaled by the second sec
 Facts, History & Conversion Formulas". Live Science. Retrieved 9 February 2018. ^ Benham, Elizabeth (6 October 2020). "Busting Myths about the Metric System". US National Institute of Standards and Technology (NIST). ^ "Appendix C - General Tables of Units of Measurement" (PDF). NIST Handbook 44 - Specifications, Tolerances, and Other
Technical Requirements for Weighing and Measuring Devices - 2021. Archived (PDF) from the original on 27 December 2021. ^ "50 years of Celsius weather forecasts - time to kill off Fahrenheit for good? | Metric Views". Archived from the original on 2 October 2020.
 Retrieved 28 July 2019. ^ Celsius, Anders (1742) "Observationer om twänne beständiga grader på en thermometer" (Observations about two stable degrees on a thermometer), Kungliga Svenska Vetenskapsakademiens Handlingar (Proceedings of the Royal Swedish Academy of Sciences), 3: 171-180 and Fig. 1. ^ a b Boyes, Walt (2009).
Instrumentation Reference Book. Butterworth-Heinemann. pp. 273-274. ISBN 978-0-7506-8308-1. Retrieved 17 July 2011. ^ Dingman, S. L. (26 February 2009). Fluvial Hydraulics. Oxford University Press, USA. p. 522. ISBN 978-0-19-517286-7. ^ Sogin, Harold H.; Hassan, Kamal-Eldin (June 1956). A design manual for regenerative heat exchangers
of the rotary type. Wright Air Development Center. p. xii. ^ a b c Fahrenheit, R. S. S (Experiments and observations on water freezing in the void by D. G. Fahrenheit, R. S. S.), Philosophical Transactions of the Royal Society of London, vol. 33
no. 382, page 78 (March-April 1724). Cited and translated in . ^ "Wetterlexikon - Lufttemperatur" (in German). Deutscher Wetterdienst. Archived from the original on 15 October 2013. Retrieved 13 December 2013. ^ Ernst Cohen and W. A. T. Cohen-De Meester. Chemisch Weekblad, volume 33 (1936), pages 374–393, cited and translated in .
Frautschi, Steven C.; Richard P. Olenick; Tom M. Apostol; David L. Goodstein (14 January 2008). The mechanics and heat. Cambridge University Press. p. 502. ISBN 978-0-521-71590-4. Adams, Cecil (15 December 1989). "On the Fahrenheit scale, do 0 and 100 have any special significance?". The Straight Dope. Adams, Cecil (15 December 1989). "On the Fahrenheit scale, do 0 and 100 have any special significance?". The Straight Dope.
Daniele Gabr. (1724) "Experimenta circa gradum caloris liquorum nonnullorum ebullientium instituta". Archived 29 June 2014 at the Wayback Machine (Experiments performed concerning the degree of heat of some boiling liquids), Philosophical Transactions of the Royal Society of London, 33: 1-3. For an English translation, see: Le Moyne College
(Syracuse, New York). ^ Hasok Chang, Inventing Temperature: Measurement and Scientific Progress, pp. 8-11, Oxford University Press, 2004, ISBN 0198038240. ^ Cavendish, Henry; Heberden, William; Aubert, Alexander; Luc, Jean Andre De; Maskelyne, Nevil; Horsley, Samuel; Planta, Joseph (28 December 1777). "XXXVII. The report of the
Committee appointed by the Royal Society to consider of the best method of adjusting the fixed points of the recautions necessary to be used in making experiments with those instruments. Philosophical Transactions of the Royal Society of London. 67: 816-857. doi:10.1098/rstl.1777.0038. ISSN 0261-0523. Philosophical Transactions of the Royal Society of London. 67: 816-857. doi:10.1098/rstl.1777.0038. ISSN 0261-0523.
Forsberg, C.; Wahren, L.K. (2002). "Temperature of a Healthy Human (Body Temperature)". Scandinavian Journal of Caring Sciences. 16 (2): 122-8. doi:10.1046/j.1471-6712.2002.00069.x. PMID 12000664. Archived from the original on 26 September 2010. Retrieved 12 April 2008. ^ "782 - Aerodrome reports and forecasts: A user's handbook to the
codes". World Meteorological Organization. Retrieved 23 September 2009. ^ "Canadian Units of Measures. pp. 165-166, 176-177. Retrieved 19 May 2009. ^ "Canadian Units of Measures and Measures. pp. 165-166, 176-177. Retrieved 19 May 2009. ^ "Canadian Units of Measures. pp. 165-166, 176-177. Retrieved 19 May 2009. ^ "Canadian Units of Measures. pp. 165-166, 176-177. Retrieved 19 May 2009. ^ "Canadian Units of Measures. pp. 165-166, 176-177. Retrieved 19 May 2009. ^ "Canadian Units of Measures. pp. 165-166, 176-177. Retrieved 19 May 2009. ^ "Canadian Units of Measures. pp. 165-166, 176-177. Retrieved 19 May 2009. ^ "Canadian Units of Measures. pp. 165-166, 176-177. Retrieved 19 May 2009. ^ "Canadian Units of Measures. pp. 165-166, 176-177. Retrieved 19 May 2009. ^ "Canadian Units of Measures. pp. 165-166, 176-177. Retrieved 19 May 2009. ^ "Canadian Units of Measures. pp. 165-166, 176-177. Retrieved 19 May 2009. ^ "Canadian Units of Measures. pp. 165-166, 176-177. Retrieved 19 May 2009. ^ "Canadian Units of Measures. pp. 165-166, 176-177. Retrieved 19 May 2009. ^ "Canadian Units of Measures. pp. 165-166, 176-177. Retrieved 19 May 2009. ^ "Canadian Units of Measures. pp. 165-166, 176-177. Retrieved 19 May 2009. ^ "Canadian Units of Measures. pp. 165-166, 176-177. Retrieved 19 May 2009. ^ "Canadian Units of Measures. pp. 165-166, 176-177. Retrieved 19 May 2009. ^ "Canadian Units of Measures. pp. 165-166, 176-177. Retrieved 19 May 2009. ^ "Canadian Units of Measures. pp. 165-166, 176-177. Retrieved 19 May 2009. ^ "Canadian Units of Measures. pp. 165-166, 176-177. Retrieved 19 May 2009. ^ "Canadian Units of Measures. pp. 165-166, 176-177. Retrieved 19 May 2009. ^ "Canadian Units of Measures. pp. 165-166, 176-177. Retrieved 19 May 2009. ^ "Canadian Units of Measures. pp. 165-166, 176-177. Retrieved 19 May 2009. ^ "Canadian Units of Measures. pp. 165-166, 176-177. Retrieved 19 May 2009. ^ "Canadian Units of Measures. pp. 165-166, 176-177. Retrieved 19 May 2009. ^ "Canadian Units of Measures. pp. 165-166, 176-177. Retrieve
W-6)". 17 May 2011. Archived from the original on 13 May 2011. Retrieved 5 June 2011. ^ "Example of analog thermometer frequently used in Canada". Archived from the original on 6 July 2011. Retrieved 6 June 2011. ^ "Example of analog thermometer frequently used in Canada". Archived from the original on 6 July 2011. Retrieved 6 June 2011. ^ "Example of analog thermometer frequently used in Canada". Archived from the original on 13 May 2011. Retrieved 5 June 2011. ^ "Example of analog thermometer frequently used in Canada". Archived from the original on 13 May 2011. Retrieved 5 June 2011. ^ "Example of analog thermometer frequently used in Canada". Archived from the original on 13 May 2011. Retrieved 5 June 2011. ^ "Example of analog thermometer frequently used in Canada". Archived from the original on 13 May 2011. Retrieved 5 June 2011. ^ "Example of analog thermometer frequently used in Canada". Archived from the original on 13 May 2011. Retrieved 5 June 2011. ^ "Example of analog thermometer frequently used in Canada". Archived from the original on 13 May 2011. Retrieved 5 June 2011. ^ "Example of analog thermometer frequently used in Canada". Archived from the original on 13 May 2011. Retrieved 5 June 2011. ^ "Example of analog thermometer frequently used in Canada". Archived from the original on 13 May 2011. Retrieved 5 June 2011. ^ "Example of analog thermometer frequently used in Canada". Archived from the original on 13 May 2011. Retrieved 5 June 2011. ^ "Example of analog thermometer frequently used in Canada". Archived from the original on 13 May 2011. Retrieved 5 June 2011. ^ "Example of analog thermometer frequently used in Canada". Archived from the original on 13 May 2011. Retrieved 5 June 2011. ^ "Example of analog thermometer frequently used in Canada". Archived from the original on 13 May 2011. Retrieved 5 June 2011. ^ "Example of analog thermometer frequently used in Canada". Archived from the original on 13 May 2011. Archived from the original on 13 May 2011. Archived from the original on 13 Ma
digital thermometer frequently used in Canada". Archived from the original on 6 July 2011. Retrieved 6 June 2011. ^ Department of Justice (26 February 2009). "Canadian Weights and Measures Act". Federal Government of Justice (26 February 2009). "Canadian Weights and Measures Act". Federal Government of Justice (26 February 2009). "Canadian Weights and Measures Act". Federal Government of Justice (26 February 2009)."
and Measures - The Units of Measurement Regulations 2009 (PDF), archived from the original (PDF) on 1 January 2017, "The Secretary of State, being a Minister designated(a) for the purposes of section 2(2) of the European Communities Act 1972(b) in relation to units of measurement to be used for economic, health, safety, or administrative
 purposes, in exercise of the powers conferred by that subsection, makes the following Regulations: ^ "The media like Fahrenheit but most Brits think in Celsius". Opinium. 24 July 2013. P. 55. ^ Roy Greenslade (29 May 2014). "Newspapers run hot and cold over Celsius and Fahrenheit".
 The Guardian. ^ "Measure for measure". The Times. 23 February 2006. ^ "22.2". The Unicode Standard, Version 8.0 (PDF). Mountain View, CA, USA: The Unicode Consortium. August 2015. Retrieved 6 September 2015. Media related to Fahrenheit temperature at
 Wikimedia Commons The dictionary definition of fahrenheit at Wiktionary Daniel Gabriel Fahrenheit (Polish-born Dutch physicist) - Encyclopædia Britannica "At Auction | One of Only Three Original Fahrenheit Thermometers" Enfilade page for 2012 Christie's sale of a Fahrenheit mercury thermometer Christie's press release "SI Units
Temperature". NIST. National Institute of Standards and Technology (US Department of Commerce). 15 November 2019. Retrieved 25 February 2020. Retrieved from "Temperature conversions of Fahrenheit Fahrenheit is a unit of
temperature. The freezing/melting point of water is about 32 °F at a pressure of 1 atmosphere. The symbol of Fahrenheit degrees is °F. Celsius or centigrade is a unit of temperature. The boiling point of water is about one hundred degrees
celsius (100 °C) at a pressure of 1 atmosphere. The exact values depend on the water composition (usually the amount of salt) and the air pressure of 1 atmosphere. The exact values depend on the water composition (usually the amount of salt) and the air pressure of 1 atmosphere. The exact values depend on the water composition (usually the amount of salt) and the air pressure of 1 atmosphere.
to convert Fahrenheit to Celsius 0 degrees Fahrenheit is equal to -17.77778 °C The temperature in degrees Fahrenheit - 32) / (9/5) or Celsius = (Fahrenheit - 32) / 1.8 Example #1
Convert 32 degrees Fahrenheit to degrees Celsius: Celsius = (68°F - 32) × 5/9 = 0 °C Example #2 Convert 68 degrees Fahrenheit to degrees Celsius: Celsius = (68°F - 32) × 5/9 = 20 °C Fahrenheit to degrees Fahrenheit to degrees Fahrenheit to degrees Fahrenheit to degrees Celsius: Celsius = (68°F - 32) × 5/9 = 20 °C Fahrenheit to degrees Fahrenheit to degree Fahr
-30 °F -34.44 °C -20 °F -23.33 °C 0 °F -17.78 °C 10 °F -23.33 °C 0 °F -17.78 °C 10 °F -17.78 °C 110 °F 43.33 °C 120 °F -17.78 °C 10 °F -17.78 °C 10 °F -17.78 °C 10 °F -17.78 °C 110 °F 43.33 °C 120 °F -17.78 °C 10 °F -17.78
°F 48.89 °C 130 °F 54.44 °C 140 °F 60.00 °C 150 °F 65.56 °C 160 °F 71.11 °C 170 °F 76.67 °C 180 °F 82.22 °C 190 °F 87.78 °C 200 °F 204.44 °C 500 °F 204.44 °C 500 °F 315.56 °C 700 °F 371.11 °C 800 °F 426.67 °C 900 °F 482.22 °C 1000 °F 537.78 °C
Celsius to Fahrenheit > See also Convert temperature, degrees Fahrenheit to degrees Fahrenheit to degrees Fahrenheit to degrees Fahrenheit to degrees Fahrenheit of Equals of Fahrenheit of Fahrenheit
to Celsius Subtract 32 from degrees Fahrenheit Divide the result by 1.8 (or 9/5) °C = (9/5) °
 will show the steps to solve the °F to °C formula so you know how make the conversion yourself. Celsius is a temperature scale and degrees Celsius is °C. A temperature scale and degrees Celsius is a temperature scale and degrees Celsius is a temperature on that scale. The symbol for degree Celsius is a temperature scale and degrees Celsius is °C. A temperature scale and degrees Celsius is a temperature scale and degrees Celsius is a temperature scale and degrees Celsius is °C. A temperature scale and degrees Celsius is °C. A temperature scale and degrees Celsius is celsius is celsius is celsius is celsius is °C. A temperature scale and degrees Celsius is 
 °C, the freezing point of water is 0 °C and absolute zero is -273.15 °C. Fahrenheit is a temperature scale and degrees Fahrenheit are units of temperature on that scale. The symbol for degree Fahrenheit is a temperature scale and degrees Fahrenheit are units of temperature on that scale.
 °F, the freezing point of water is 32 °F and absolute zero is -459.67 °F. Worldwide use: The Fahrenheit remains the official scale of the United States, Cayman Islands and Belize. Canada retains Fahrenheit as a supplementary scale that
can be used alongside Celsius, and in the UK the Fahrenheit scale continues to be used informally, especially in terms of expressing hot weather (although colder weather is 32 degrees Fahrenheit (°F) and the boiling
point 212°F (at standard atmospheric pressure). This puts the boiling and freezing points of water exactly 180 degrees apart. Therefore, a degree on the Fahrenheit scale is 1/180 of the interval between the freezing point and the boiling point of water. Absolute zero is defined as -459.67°F. A temperature difference of 1°F is the equivalent of a
 temperature difference 0.556°C. Origin: Proposed in 1724 by, and named after, the German physicist Daniel Gabriel Fahrenheit (1686-1736). Fahrenheit pioneered the manufacture of thermometers using mercury, and established 0°F as the
 temperature "when the thermometer is held in the mouth or under the armpit of a living man in good health". Subsequently, the freezing temperature as 98.6°F. Common references: Absolute Zero, -459.67°F Freezing point of water, 32°F Warm summer's day in a
 temperate climate, 72°F Normal human body temperature, 98.6°F Boiling point of water at 1 atmosphere, 212°F Usage context: The Fahrenheit remains the official scale of the United States, Cayman Islands and Belize. Canada retains
Fahrenheit as a supplementary scale that can be used alongside Celsius, and in the UK the Fahrenheit scale continues to be used informally, especially in terms of expressing hot weather (although colder weather is generally expressed using Celsius). Why can you not go below -459.67°F: The temperature -459.67°F is known as absolute zero and it is
the lowest possible temperature that can exist in the universe. At this point all molecular motion ceases and no further fall in temperature is possible since the kinetic energy of particles is at zero and they come to a complete standstill. The Kelvin and Rankine scales start at absolute zero. Going below -459.67°F or 0R is impossible because it
contradicts the laws of thermodynamics. The energy of particles in an object decreases as they lose kinetic energy and their ability to move. At absolute zero the particles have no energy which is not possible. Is there an absolute
Fahrenheit scale?: The freezing point of water is defined as 32 degrees Fahrenheit (°F) and the boiling points of a mixture of salt ice. Rankine has the same intervals as the Fahrenheit scale but it is an absolute temperature scale and so it starts at
absolute zero which is the lowest possible temperature that can be achieved. This makes Rankine and absolute variant of Fahrenheit, you simply add 459.67. Similarly, to convert Fahrenheit to Rankine, subtract 459.67. For example, a temperature of 500 Rankine is 40.33 Fahrenheit.
Temperature conversion Fahrenheit to Celsius Fahrenheit to Revin F
conversion Réaumur conversion Rømer conversion Length conversion Area conversion Volume conversion Time conversion Pressure conversion Energy and power conversion iPhone and Android app Metric Conversion Table
```