

Standard deviation using assumed mean pdf

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Return a list of the lines in the binary sequence, breaking at ASCII line boundaries. This method uses the universal newlines approach to splitting lines. Line breaks are not included in the resulting list unless keepends is given and true. For example: `>>> b'ab cde fg\rkl\r'.splitlines()` [b'ab c', b'', b'de fg', b'kl'] `>>> b'ab cde fg\rkl\r'.splitlines(keepends=True)` [b'ab c', b'', b'de fg\r', b'kl\r'] Unlike split() when a delimiter string sep is given, this method returns an empty list for the empty string, and a terminal line break does not result in an extra line: `>>> b"".split(b")`, b"Two lines".split(b") ([b"], [b'Two lines', b'']) `>>> b"".splitlines()`, b"One line".splitlines() ([], [b'One line']) bytes.swapcase()¶ bytarray.swapcase()¶ Return a copy of the sequence with all the lowercase ASCII characters converted to their corresponding uppercase counterpart and vice-versa. For example: `>>> b'Hello World'.swapcase()` b'hELLO wORLD' Lowercase ASCII characters are those byte values in the sequence b'abcdefghijklmnopqrstuvwxyz'. Uppercase ASCII characters are those byte values in the sequence b'ABCDEFGHIJKLMNOPQRSTUVWXYZ'. Unlike str.swapcase(), it is always the case that bin.swapcase().swapcase() == bin for the binary versions. Case conversions are symmetrical in ASCII, even though that is not generally true for arbitrary Unicode code points. Note The bytarray version of this method does not operate in place - it always produces a new object, even if no changes were made. bytes.title()¶ bytarray.title()¶ Return a titlecased version of the binary sequence where words start with an uppercase ASCII character and the remaining characters are lowercase. Uncased byte values are left unmodified. For example: `>>> b'Hello world'.title()` b'Hello World' Lowercase ASCII characters are those byte values in the sequence b'abcdefghijklmnopqrstuvwxyz'. Uppercase ASCII characters are those byte values in the sequence b'ABCDEFGHIJKLMNOPQRSTUVWXYZ'. All other byte values are uncased. The algorithm uses a simple language-independent definition of a word as groups of consecutive letters. The definition works in many contexts but it means that apostrophes in contractions and possessives form word boundaries, which may not be the desired result: `>>> b"they're bill's friends from the UK".title()` b"They'Re Bill'S Friends From The Uk" A workaround for

language-independent definition of a word as groups of consecutive letters. The definition works in many contexts but it means that apostrophes in contractions and possessives form word boundaries, which may not be the desired result. >>> b they're Bill's friends from the UK title() b They're Bill's Friends From The UK A workaround for apostrophes can be constructed using regular expressions: >>> import re >>> def titlecase(s): ... return re.sub(rb"[A-Za-z]+([A-Za-z]+)?", ... lambda mo: mo.group(0)[0:1].upper() + ... mo.group(0)[1:].lower(), ... s) ... >>> titlecase(b"they're bill's friends.") b"They're Bill's Friends." Note The bytarray version of this method does not operate in place - it always produces a new object, even if no changes were made. bytes.upper()¶ Return a copy of the sequence with all the lowercase ASCII characters converted to their corresponding uppercase counterpart. For example: >>> b'Hello World'.upper() b'HELLO WORLD' Lowercase ASCII characters are those byte values in the sequence b'abcdefghijklmnopqrstuvwxyz'. Uppercase ASCII characters are those byte values in the sequence b'ABCDEFGHIJKLMNOPQRSTUVWXYZ'. Note The bytarray version of this method does not operate in place - it always produces a new object, even if no changes were made. bytes.zfill(width)¶ Return a copy of the sequence left filled with ASCII b'0' digits to make a sequence of length width. A leading sign prefix (b'+/ b'-) is handled by inserting the padding after the sign character rather than before. For bytes objects, the original sequence is returned if width is less than or equal to len(seq). For example: >>> b"42".zfill(5) b'00042' >>> b"-42".zfill(5) b'-0042' Note The bytarray version of this method does not operate in place - it always produces a new object, even if no changes were made. Note The formatting operations described here exhibit a variety of quirks that lead to a number of common errors (such as failing to display tuples and dictionaries correctly). If the value being printed may be a tuple or dictionary, wrap it in a tuple. Bytes objects (bytes/bytarray) have one unique built-in operation: the % operator (modulo). This is also known as the bytes formatting or interpolation operator. Given format % values (where format is a bytes object), % conversion specifications in format are replaced with zero or more elements of values. The effect is similar to using the sprintf() in the C language. If format requires a single argument, values may be a single non-tuple object. 5 Otherwise, values must be a tuple with exactly the number of items specified by the format bytes object, or a single mapping object (for example, a dictionary). A conversion specifier contains two or more characters and has the following components, which must occur in this order: The '%' character, which marks the start of the specifier. Mapping key (optional), consisting of a parenthesised sequence of characters (for example, (somename)). Conversion flags (optional), which affect the result of some conversion types. Minimum field width (optional). If specified as an '*' (asterisk), the actual width is read from the next element of the tuple in values, and the object to convert comes after the minimum field width and optional precision. Precision (optional), given as a '.' (dot) followed by the precision. If specified as '*' (an asterisk), the actual precision is read from the next element of the tuple in values, and the value to convert comes after the precision. Length modifier (optional). Conversion type. When the right argument is a dictionary (or other mapping type), then the formats in the bytes object must include a parenthesised mapping key into that dictionary inserted immediately after the '%' character. The mapping key selects the value to be formatted from the mapping. For example: >>> print(b'%({language})s has %(number)03d quote types.' % ... {b'language': b"Python", b"number": 2}) b'Python has 002 quote types.' In this case no * specifiers may occur in a format (since they require a sequential parameter list). The conversion flag characters are: Flag Meaning '#' The value conversion will use the "alternate form" (where defined below). '0' The conversion will be zero padded for numeric values. ' ' The converted value is left adjusted (overrides the '0' conversion if both are given). ' (a space) A blank should be left before a positive number (or empty string) produced by a signed conversion. '+' A sign character ('+' or '-') will precede the conversion (overrides a "space" flag). A length modifier (h, l, or L) may be present, but is ignored as it is not necessary for Python - so e.g. %ld is identical to %d. The conversion types are: Conversion Meaning Notes 'd' Signed integer decimal. 'i' Signed integer decimal - it is identical to 'd'. (8) 'x' Signed hexadecimal (lowercase). (2) 'X' Signed hexadecimal (uppercase). (3) 'E' Floating point exponential format (lowercase). (3) 'F' Floating point decimal format. (3) 'g' Floating point format if exponent is less than -4 or not less than precision, decimal format otherwise. (4) 'G' Floating point format. Uses uppercase exponential format if exponent is less than -4 or not less than precision, decimal format otherwise. (4) 'c' Single byte (accepts integer or single byte objects). 'b' Bytes (any object that follows the buffer protocol or has __bytes__()). (5) 's' 's' is an alias for 'b' and should only be used for Python2/3 code bases. (6) 'a' Bytes (converts any Python object using repr(obj).encode('ascii', 'backslashreplace')). (5) 'r' 'r' is an alias for 'a' and should only be used for Python2/3 code bases. (7) '%' No argument is converted, results in a '%' character in the result. Notes: The alternate form causes a leading '0x' or '0X' (depending on whether the 'x' or 'X' format was used) to be inserted before the first digit. The alternate form causes the result to always contain a decimal point, even if no digits follow it. The precision determines the number of digits after the decimal point and defaults to 6. The alternate form causes the result to always contain a decimal point, and trailing zeroes are not removed as they would otherwise be. The precision determines the number of significant digits before and after the decimal point and defaults to 6. If precision is N, the output is truncated to N characters. b'%s' is deprecated, but will not be removed during the 3.x series. See PEP 237. Note The bytarray version of this method does not operate in place - it always produces a new object, even if no changes were made. See also PEP 461 - Adding % formatting to bytes and bytarray memoryview objects allow Python code to access the internal data of an object that supports the buffer protocol without copying. class memoryview(object)¶ Create a memoryview that references object. object must support the buffer protocol. Built-in objects that support the buffer protocol include bytes and bytarray. A memoryview has the notion of an element, which is the atomic memory unit handled by the originating object. For many simple types such as bytes and bytarray, an element is a single byte, but other types such as array.array may have bigger elements. len(view) is equal to the length of tolist. If view.ndim = 0, the length is 1. If view.ndim = 1, the length is equal to the number of elements in the view. For higher dimensions, the length is equal to the length of the nested list representation of the view. The itemsize attribute will give you the number of bytes in a single element. A memoryview supports slicing and indexing to expose its data. One-dimensional slicing will result in a subview: >>> v = memoryview(b'abcdefg') >>> v[1:98] >>> v[-1] 103 >>> v[1:4] >>> bytes(v[1:4]) b'bce' If format is one of the native format specifiers from the struct module, indexing with an integer or a tuple of integers is also supported and returns a single element with the correct type. One-dimensional memoryviews can be indexed with an integer or a one-integer tuple. Multi-dimensional memoryviews can be indexed with tuples of exactly ndim integers where ndim is the number of dimensions. Zero-dimensional memoryviews can be indexed with the empty tuple. Here is an example with a non-byte format: >>> import array >>> a = array.array('l', [-11111111, 22222222, -33333333, 44444444]) >>> m = memoryview(a) >>> m[0] -11111111 >>> m[-1] 44444444 >>> m[:2].tolist() [-11111111, -33333333] If the underlying object is writable, the memoryview supports one-dimensional slice assignment. Resizing is not allowed: >>> data = bytarray(b'abcdefg') >>> v = memoryview(data) >>> v[0] = ord(b'z') >>> data bytarray(b'z123fg') >>> v[2:3] = b'spam' Traceback (most recent call last): File "", line 1, in ValueError: memoryview assignment: lvalue and rvalue have different structures >>> v[2:6] = b'spam' >>> data bytarray(b'z1spam') One-dimensional memoryviews of hashable (read-only) types with formats 'B', 'b' or 'c' are also hashable. The hash is defined as hash(m.tobytes()): >>> v = memoryview(b'abcdefg') >>> hash(v) == hash(b'abcdefg') True >>> hash(v[2:4]) == hash(b'abcefg'[2:4]) True Changed in version 3.3: One-dimensional memoryviews with formats 'B', 'b' or 'c' are now hashable. Changed in version 3.5: memoryviews can now be indexed with tuple of integers. memoryview has several methods: __eq__(exporter)¶ A memoryview and a PEP 3118 exporter are equal when the operands' respective format codes are interpreted using struct syntax. For the subset of struct format strings currently supported by tolist(), v and w are equal if v.tolist() == w.tolist(): >>> import array >>> a = array.array('I', [1, 2, 3, 4, 5]) >>> b = array.array('d', [1.0, 2.0, 3.0, 4.0, 5.0]) >>> c = array.array('b', [5, 3, 1]) >>> x = memoryview(a) >>> y = memoryview(b) >>> x == a == y == b True >>> x.tolist() == a.tolist() == y.tolist() True >>> z = y[::2] >>> z == c True >>> z.tolist() == c.tolist() True If either format string is not supported by the struct module, then the objects will always compare as unequal (even if the format strings and buffer contents are identical): >>> from ctypes import BigEndianStructure, c_long >>> class BEPoint(BigEndianStructure): ... _fields_ = [("x", c_long), ("y", c_long)] ... >>> point = BEPoint(100, 200) >>> a = memoryview(point) >>> b = memoryview(point) >>> a == b False Note that, as with floating point numbers, v is w does not imply v == w for memoryview objects. Changed in version 3.3: Previous versions compared the raw memory disregarding the item format and the logical array structure. tobytes(order=None)¶ Return the data in the buffer as a bytstring. This is equivalent to calling the bytes constructor on the memoryview. >>> m = memoryview(b"abc") >>> b'abc' >>> bytes(m) b'abc' For non-contiguous arrays the result is equal to the flattened list representation with all elements converted to bytes. tobytes() supports all format strings, including those that are not in struct module syntax. New in version 3.8: order can be {'C', 'F', 'A'}. When order is 'C' or 'F', the data of the original array is converted to C or Fortran order. For contiguous views, 'A' returns an exact copy of the physical memory. In particular, in-memory Fortran order is preserved. For non-contiguous views, the data is converted to C first. order=None is the same as order='C'. hex([sep[, bytes_per_sep]])¶ Return a string object containing two hexadecimal digits for each byte in the buffer. >>> m = memoryview(b"abc") >>> m.hex() '616263' Changed in version 3.8: Similar to bytes.hex(), memoryview.hex() now supports optional sep and bytes_per_sep parameters to insert separators between bytes in the hex output. tolist()¶ Return the data in the buffer as a list of elements. >>> memoryview(b'abc').tolist() [97, 98, 99] >>> import array >>> a = array.array('d', [1.1, 2.2, 3.3]) >>> m = memoryview(a) >>> m.tolist() [1.1, 2.2, 3.3] Changed in version 3.3: tolist() now supports all single character native formats in struct module syntax as well as multi-dimensional representations. toreadonly()¶ Return a readonly version of the memoryview object. The original memoryview object is unchanged. >>> m = memoryview(bytarray(b'abc')) >>> mm = m.toreadonly() >>> mm.tolist() [89, 98, 99] >>> mm[0] = 42 Traceback (most recent call last): File "", line 1, in TypeError: cannot modify read-only memory >>> m[0] = 43 >>> mm.tolist() [43, 98, 99] Release the underlying buffer exposed by the memoryview object. Many objects take special actions when a view is held on them (for example, a bytarray would temporarily forbid resizing); therefore, calling release() is handy to remove these restrictions (and free any dangling resources) as soon as possible. After this method has been called, any further operation on the view raises a ValueError (except release() itself which can be called multiple times): >>> m = memoryview(b'abc') >>> m.release() >>> m[0] Traceback (most recent call last): File "", line 1, in ValueError: operation forbidden on released memoryview object The context management protocol can be used for a similar effect, using the with statement: >>> with memoryview(b'abc') as m: ... m[0] ... 97 >>> m[0] Traceback (most recent call last): File "", line 1, in ValueError: operation forbidden on released memoryview object cast(format[, shape])¶ Cast a memoryview to a new format or shape. shape defaults to [byte_length/new_itemsize], which means that the result view will be one-dimensional. The return value is a new memoryview, but the buffer itself is not copied. Supported casts are 1D -> C-contiguous and C-contiguous -> 1D. The destination format is restricted to a single element native format in struct syntax. One of the formats must be a byte format ('B', 'b' or 'c'). The byte length of the result must be the same as the original length. Cast 1D/long to 1D/unsigned bytes: >>> import array >>> a = array.array('l', [1, 2, 3]) >>> x = memoryview(a) >>> x.format('l') >>> x.itemsize 8 >>> len(x) 3 >>> x nbytes 24 >>> y = x.cast('B') >>> y.format('B') >>> y.itemsize 1 >>> len(y) 24 >>> y nbytes 24 Cast 1D/unsigned bytes to 1D/char: >>> b = bytarray(b'xyz') >>> x = memoryview(b) >>> x[0] = b'a' Traceback (most recent call last): File "", line 1, in ValueError: memoryview: invalid value for format "B" >>> y = x.cast('c') >>> y[0] = b'a' >>> b bytarray(b'ayz') Cast 1D/bytes to 3D/ints to 1D/signed char: >>> import struct >>> buf = struct.pack("i"*12, *list(range(12))) >>> x = memoryview(buf) >>> y = x.cast('i', shape=[2, 2, 3]) >>> y.tolist() [[[0, 1, 2], [3, 4, 5]], [[6, 7, 8], [9, 10, 11]]] >>> y.format('i') >>> y.itemsize 4 >>> len(y) 2 >>> z = y.cast('b') >>> z.format('b') >>> z.itemsize 1 >>> len(z) 48 >>> z nbytes 48 Cast 1D/unsigned long to 2D/unsigned long: >>> buf = struct.pack("L"*6, *list(range(6))) >>> x = memoryview(buf) >>> y = x.cast('L', shape=[2, 3]) >>> len(y) 2 >>> y nbytes 48 >>> y.tolist() [[0, 1, 2], [3, 4, 5]] Changed in version 3.5: The source format is no longer restricted when casting to a byte view. There are also several readonly attributes available: obj¶ The underlying object of the memoryview: >>> b = bytarray(b'xyz') >>> m = memoryview(b) >>> m.obj is b True nbytes == product(shape) * itemsize == len(m.tobytes()). This is the amount of space in bytes that the array would use in a contiguous representation. It is not necessarily equal to len(m): >>> import array >>> a = array.array('i', [1, 2, 3, 4, 5]) >>> m = memoryview(a) >>> len(m) 5 >>> m nbytes 20 >>> y = m[::2] >>> len(y) 3 >>> y nbytes 12 Multi-dimensional arrays: >>> import struct >>> buf = struct.pack("d"*12, *[1.5*x for x in range(12)]) >>> x = memoryview(buf) >>> y = x.cast('d', shape=[3, 4]) >>> y.tolist() [[0.0, 1.5, 3.0, 4.5], [6.0, 7.5, 9.0, 10.5], [12.0, 13.5, 15.0, 16.5]] >>> len(y) 3 >>> y nbytes 96 readonly¶ A bool indicating whether the memory is read only. format¶ A string containing the format (in struct module style) for each element in the view. A memoryview can be created from exporters with arbitrary format strings, but some methods (e.g. tolist()) are restricted to native single element formats. Changed in version 3.3: format 'B' is now handled according to the struct module syntax. This means that memoryview(b'abc')[0] == b'abc'[0] == 97. itemsize¶ The size in bytes of each element of the memoryview: >>> import array, struct >>> m = memoryview(array.array('H', [32000, 32001, 32002])) >>> m.itemsize 2 >>> m[0] 32000 >>> struct.calcsize('H') == m.itemsize True ndim¶ An integer indicating how many dimensions of a multi-dimensional array the memory represents. shape¶ A tuple of integers the length of ndim giving the shape of the memory as an N-dimensional array. Changed in version 3.3: An empty tuple instead of None when ndim = 0. strides¶ A tuple of integers the length of ndim giving the size in bytes for each dimension of the array. Changed in version 3.3: An empty tuple instead of None when ndim = 0. suboffsets¶ Used internally for PIL-style arrays. The value is informational only. c_contiguous¶ A bool indicating whether the memory is C-contiguous. f_contiguous¶ A bool indicating whether the memory is Fortran contiguous. A set object is an unordered collection of distinct hashable objects. Common uses include membership testing, removing duplicates from a sequence, and computing mathematical operations such as intersection, union, difference, and symmetric difference. (For other containers see the built-in dict, list, and tuple classes, and the collections module.) Like other collections, sets support x in set, len(set), and for x in set. Being an unordered collection, sets do not record element position or order of insertion. Accordingly, sets do not support indexing, slicing, or other sequence-like behavior. There are currently two built-in set types — the contents can be changed using methods like add(), and

set, len(set), and for x in set. Being an unordered collection, sets do not record element position or order of insertion. Accordingly, sets do not support indexing, slicing, or other sequence-like behavior. There are currently two built-in set types, set and frozenset. The set type is mutable — the contents can be changed using methods like add() and remove(). Since it is mutable, it has no hash value and cannot be used as either a dictionary key or as an element of another set. The frozenset type is immutable and hashable — its contents cannot be altered after it is created; it can therefore be used as a dictionary key or as an element of another set. Non-empty sets (not frozensets) can be created by placing a comma-separated list of elements within braces, for example: {'jack', 'sjoerd'}, in addition to the set constructor. The constructors for both classes work the same: class set([iterable])¶ class frozenset([iterable])¶ Return a new set or frozenset object whose elements are taken from iterable. The elements of a set must be hashable. To represent sets of sets, the inner sets must be frozenset objects. If iterable is not specified, a new empty set is returned. Sets can be created by several means: Use a comma-separated list of elements within braces: {'jack', 'sjoerd'} Use a set comprehension: {c for c in 'abracadabra' if c not in 'abc'} Use the type constructor: set(), set('foobar'), set(['a', 'b', 'foo']) Instances of set and frozenset provide the following operations: len(s) Return the number of elements in set s (cardinality of s). x in s Test x for membership in s. x not in s Test x for non-membership in s. isdisjoint(other)¶ Return True if and only if their intersection is the empty set. issubset(other)¶ set other Test whether the set is a proper subset of other, that is, set >= other and set != other. union(*others)¶ set | other | ... Return a new set with elements from the set and all others. intersection(*others)¶ set & other & ... Return a new set with elements common to the set and all others. difference(*others)¶ set - other - ... Return a new set with elements in the set that are not in the others. symmetric_difference(other)¶ set ^ other Return a new set with elements in either the set or other but not both. copy()¶ Return a shallow copy of the set. Note, the non-operator versions of union(), intersection(), difference(), symmetric_difference(), issubset(), and issuperset() methods will accept any iterable as an argument. In contrast, their operator based counterparts require their arguments to be sets. This precludes error-prone constructions like set('abc') & 'cbs' in favor of the more readable set('abc').intersection('cbs'). Both set and frozenset support set to set comparisons. Two sets are equal if and only if every element of each set is contained in the other (each is a subset of the other). A set is less than another set if and only if the first set is a proper subset of the second set (is a subset, but is not equal). A set is greater than another set if and only if the first set is a proper superset of the second set (is a superset, but is not equal). Instances of set are compared to instances of frozenset based on their members. For example, set('abc') == frozenset('abc') returns True and so does set('abc') in set([frozenset('abc')]). The subset and equality comparisons do not generalize to a total ordering function. For example, any two nonempty disjoint sets are not equal and are not subsets of each other, so all of the following return False: ab. Since sets only define partial ordering (subset relationships), the output of the list.sort() method is undefined for lists of sets. Set elements, like dictionary keys, must be hashable. Binary operations that mix set instances with frozenset return the type of the first operand. For example: frozenset('ab') | set('bc') returns an instance of frozenset. The following table lists operations available for set that do not apply to immutable instances of frozenset: update(*others)¶ set |= other | ... Update the set, adding elements from all others. intersection_update(*others)¶ set &= other & ... Update the set, keeping only elements found in it and all others. difference_update(*others)¶ set -= other | ... Update the set, removing elements found in others. symmetric_difference_update(other)¶ set ^= other Update the set, keeping only elements found in either set, but not in both. add(elem)¶ Add element elem to the set. Raises KeyError if elem is not contained in the set. discard(elem)¶ Remove element elem from the set if it is present. pop()¶ Remove and return an arbitrary element from the set. Raises KeyError if the set is empty. clear()¶ Remove all elements from the set. Note, the non-operator versions of the update(), intersection_update(), difference_update(), and symmetric_difference_update() methods will accept any iterable as an argument. Note, the elem argument to the __contains__(), remove(), and discard() methods may be a set. To support searching for an equivalent frozenset, a temporary one is created from elem. A mapping object maps hashable values to arbitrary objects. Mappings are mutable objects. There is currently only one standard mapping type, the dictionary. (For other containers see the built-in list, set, and tuple classes, and the collections module.) A dictionary's keys are almost arbitrary values. Values that are not hashable, that is, values containing lists, dictionaries or other mutable types (that are compared by value rather than by object identity) may not be used as keys. Numeric types used for keys obey the normal rules for numeric comparison: if two numbers compare equal (such as 1 and 1.0) then they can be used interchangeably to index the same dictionary entry. (Note however, that since computers store floating-point numbers as approximations it is usually unwise to use them as dictionary keys.) class dict(*kargs)¶ class dict(mapping, **kargs) class dict(iterable, **kargs) Return a new dictionary initialized from an optional positional argument and a possibly empty set of keyword arguments. Dictionaries can be created by several means: Use a comma-separated list of key: value pairs within braces: {'jack': 4098, 'sjoerd': 4127} or {4098: 'jack', 4127: 'sjoerd'} Use a dict comprehension: {}, {x: x ** 2 for x in range(10)} Use the type constructor: dict(), dict([('foo', 100), ('bar', 200)]), dict(foo=100, bar=200) If no positional argument is given, an empty dictionary is created. If a positional argument is given and it is a mapping object, a dictionary is created with the same key-value pairs as the mapping object. Otherwise, the positional argument must be an iterable object. Each item in the iterable must itself be an iterable with exactly two objects. The first object of each item becomes a key in the new dictionary, and the second object the corresponding value. If a key occurs more than once, the last value for that key becomes the corresponding value in the new dictionary. If keyword arguments are given, the keyword arguments and their values are added to the dictionary created from the positional argument. To illustrate, the following examples all return a dictionary equal to {"one": 1, "two": 2, "three": 3}: >>> a = dict(one=1, two=2, three=3) >>> b = {'one': 1, 'two': 2, 'three': 3} >>> c = dict(zip(['one', 'two', 'three'], [1, 2, 3])) >>> d = dict([('two', 2), ('one', 1), ('three', 3)]) >>> e = dict({'three': 3, 'one': 1, 'two': 2}) >>> f = dict({'one': 1, 'three': 3}, two=2) >>> a == b == c == d == e == f True Providing keyword arguments as in the first example only works for keys that are valid Python identifiers. Otherwise, any valid keys can be used. These are the operations that dictionaries support (and therefore, custom mapping types should support too): list(d) Return a list of all the keys used in the dictionary d. len(d) Return the number of items in the dictionary d. d[key] Return the item of d with key key. Raises a KeyError if key is not in the map. If a subclass of dict defines a method __missing__() and key is not present, the d[key] operation calls that method with the key key as argument. The d[key] operation then returns or raises whatever is returned or raised by the __missing__(key) call. No other operations or methods invoke __missing__(). If __missing__() is not defined, KeyError is raised. __missing__() must be a method; it cannot be an instance variable: >>> class Counter(dict): ... def __missing__(self, key): ... return 0 >>> c = Counter() >>> c['red'] 0 >>> c['red'] += 1 >>> c['red'] 1 The example above shows part of the implementation of collections.Counter. A different __missing__ method is used by collections.defaultdict. d[key] = value Set d[key] to value. del d[key] Remove d[key] from d. Raises a KeyError if key is not in the map. key in d Return True if d has a key key, else False. key not in d Equivalent to not key in d. iter(d) Return an iterator over the keys of the dictionary. This is a shortcut for iter(d.keys()). clear()¶ Remove all items from the dictionary. copy()¶ Create a new dictionary with keys from iterable and values set to value. fromkeys() is a class method that returns a new dictionary. value defaults to None. All of the values refer to just a single instance, so it generally doesn't make sense for value to be a mutable object such as an empty list. To get distinct values, use a dict comprehension instead. get(key[, default])¶ Return the value for key if key is in the dictionary, else default. If default is not given, it defaults to None, so that this method never raises a KeyError. items()¶ Return a new view of the dictionary's items ((key, value) pairs). See the documentation of view objects. keys()¶ Return a new view of the dictionary's keys. See the documentation of view objects. pop(key[, default])¶ If key is in the dictionary, remove it and return its value, else return default. If default is not given and key is not in the dictionary, a KeyError is raised. popitem()¶ Remove and return a (key, value) pair from the dictionary. Pairs are returned in LIFO order. popitem() is useful to destructively iterate over a dictionary, as often used in set algorithms. If the dictionary is empty, calling popitem() raises a KeyError. Changed in version 3.7: LIFO order is now guaranteed. In prior versions, popitem() would return an arbitrary key/value pair. reversed(d) Return a reverse iterator over the keys of the dictionary. This is a shortcut for reversed(d.keys()). setdefault(key[, default])¶ If key is in the dictionary, return its value. If not, insert key with a value of default and return default. default defaults to None. update(other)¶ Update the dictionary with the key/value pairs from other, overwriting existing keys. Return None. update() accepts either another dictionary object or an iterable of key/value pairs (as tuples or other iterables of length two). If keyword arguments are specified, the dictionary is then updated with those key/value pairs: d.update(red=1, blue=2). values()¶ Return a new view of the dictionary's values. See the documentation of view objects. An equality comparison between one dict.values() view and another will always return False. This also applies when comparing dict.values() to itself: >>> d = {'a': 1} >>> d.values() == d.values() False d | other Create a new dictionary with the merged keys and values of d and other, which must both be dictionaries. The values of other take priority when d and other share keys. d |= other Update the dictionary d with keys and values from other, which may be either a mapping or an iterable of key/value pairs. The values of other take priority when d and other share keys. Dictionaries compare equal if and only if they have the same (key, value) pairs (regardless of ordering). Order comparisons ('') raise TypeError. Dictionaries preserve insertion order. Note that updating a key does not affect the order. Keys added after deletion are inserted at the end. >>> d = {"one": 1, "two": 2, "three": 3, "four": 4} >>> d {'one': 1, 'two': 2, 'three': 3, 'four': 4} >>> list(d) [1, 2, 3, 4] >>> d["one"] = 42 >>> d {'one': 42, 'two': 2, 'three': 3, 'four': 4} >>> del d["two"] >>> d {'one': 42, 'three': 3, 'four': 4, 'two': None} Changed in version 3.7: Dictionary order is guaranteed to be insertion order. This behavior was an implementation detail of CPython from 3.6. Dictionaries and dictionary views are reversible. >>> d = {"one": 1, "two": 2, "three": 3, "four": 4} >>> d {'one': 1, 'two': 2, 'three': 3, 'four': 4} >>> list(reversed(d)) [4, 3, 2, 1] >>> list(reversed(d.items())) [(4, 'four'), (3, 'three'), (2, 'two'), (1, 'one')] Changed in version 3.8: Dictionaries are now reversible. The objects returned by dict.keys(), dict.values() and dict.items() are view objects. They provide a dynamic view on the dictionary's entries, which means that when the dictionary changes, the view reflects these changes. Dictionary views can be iterated over to yield their respective data, and support membership tests: len(dictview) Return the number of entries in the dictionary. iter(dictview) Return an iterator over the keys, values or items (represented as tuples of (key, value)) in the dictionary. Keys and values are iterated over in insertion order. This allows the creation of (value, key) pairs using zip(): pairs = zip(d.values(), d.keys()). Another way to create the same list is pairs = [(v, k) for (k, v) in d.items()]. Iterating views while adding or deleting entries in the dictionary may raise a RuntimeError or fail to iterate over all entries. Changed in version 3.7: Dictionary order is guaranteed to be insertion order. x in dictview Return True if x is in the underlying dictionary's keys, values or items (in the latter case, x should be a (key, value) tuple). reversed(dictview) Return a reverse iterator over the keys, values or items of the dictionary. The view will be iterated in reverse order of the insertion. Changed in version 3.8: Dictionary views are now reversible. dictview.mapping Return a types.MappingProxyType that wraps the original dictionary to which the view refers. Keys views are set-like since their entries are unique and hashable. If all values are hashable, so that (key, value) pairs are unique and hashable, then the items view is also set-like. (Values views are not treated as set-like since the entries are generally not unique.) For set-like views, all of the operations defined for the abstract base class collections.abc.Set are available (for example, ==, >> dishes = {'eggs': 2, 'sausage': 1, 'bacon': 1, 'spam': 500} >>> keys = dishes.keys() >>> values = dishes.values() >>> # iteration >>> n = 0 >>> for val in values: ... n += val >>> print(n) 504 >>> # keys and values are iterated over in the same order (insertion order) >>> list(keys) ['eggs', 'sausage', 'bacon', 'spam'] >>> list(values) [2, 1, 1, 500] >>> # view objects are dynamic and reflect dict changes >>> del dishes['eggs'] >>> list(keys) ['bacon', 'spam'] >>> # set operations >>> keys & {'eggs', 'bacon', 'salad'} {'bacon'} >>> keys ^ {'sausage', 'juice'} {'juice', 'sausage', 'bacon', 'spam'} >>> # get back a read-only proxy for the original dictionary >>> values.mapping mappingproxy({'eggs': 2, 'sausage': 1, 'bacon': 1, 'spam': 500}) >>> values.mapping['spam'] 500 Python's with statement supports the concept of a runtime context defined by a context manager. This is implemented using a pair of methods that allow user-defined classes to define a runtime context that is entered before the statement body is executed and exited when the statement ends: contextmanager.__enter__()¶ Enter the runtime context and return either this object or another object related to the runtime context. The value returned by this method is bound to the identifier in the as clause of with statements using this context manager. An example of a context manager that returns itself is a file object. File objects return themselves from __enter__() to allow open() to be used as the context expression in a with statement. An example of a context manager that returns a related object is the one returned by

as clause or with statements using this context manager. An example of a context manager that returns itself is a file object. File objects return themselves from `_enter_()` to allow open() to be used as the context expression in a with statement. An example of a context manager that returns a related object is the one returned by `decimal.localcontext()`. These managers set the active decimal context to a copy of the original decimal context and then return the copy. This allows changes to be made to the current decimal context in the body of the with statement without affecting code outside the with statement. `contextmanager._exit_(exc_type, exc_val, exc_tb)`¶ Exit the runtime context and return a Boolean flag indicating if any exception that occurred should be suppressed. If an exception occurred while executing the body of the with statement, the arguments contain the exception type, value and traceback information. Otherwise, all three arguments are None. Returning a true value from this method will cause the with statement to suppress the exception and continue execution with the statement immediately following the with statement. Otherwise the exception continues propagating after this method has finished executing. Exceptions that occur during execution of this method will replace any exception that occurred in the body of the with statement. The exception passed in should never be reraised explicitly - instead, this method should return a false value to indicate that the method completed successfully and does not want to suppress the raised exception. This allows context management code to easily detect whether or not an `_exit_()` method has actually failed. Python defines several context managers to support easy thread synchronisation, prompt closure of files or other objects, and simpler manipulation of the active decimal arithmetic context. The specific types are not treated specially beyond their implementation of the context management protocol. See the `contextlib` module for some examples. Python's generators and the `contextlib.contextmanager` decorator provide a convenient way to implement these protocols. If a generator function is decorated with the `contextlib.contextmanager` decorator, it will return a context manager implementing the necessary `_enter_()` and `_exit_()` methods, rather than the iterator produced by an undecorated generator function. Note that there is no specific slot for any of these methods in the type structure for Python objects in the Python/C API. Extension types wanting to define these methods must provide them as a normal Python accessible method. Compared to the overhead of setting up the runtime context, the overhead of a single class dictionary lookup is negligible. The core built-in types for type annotations are `GenericAlias` and `Union`. `GenericAlias` objects are generally created by subscripting a class. They are most often used with container classes, such as `list` or `dict`. For example, `list[int]` is a `GenericAlias` object created by subscripting the `list` class with the argument `int`. `GenericAlias` objects are intended primarily for use with type annotations. Note It is generally only possible to subscript a class if the class implements the special method `_class_getitem_()`. A `GenericAlias` object acts as a proxy for a generic type, implementing parameterized generics. For a container class, the argument(s) supplied to a subscription of the class may indicate the type(s) of the elements an object contains. For example, `set[bytes]` can be used in type annotations to signify a set in which all the elements are of type `bytes`. For a class which defines `_class_getitem_()` but is not a container, the argument(s) supplied to a subscription of the class will often indicate the return type(s) of one or more methods defined on an object. For example, regular expressions can be used on both the `str` data type and the `bytes` data type: If `x = re.search('foo', 'foo')`, `x` will be a `re.Match` object where the return values of `x.group(0)` and `x[0]` will both be of type `str`. We can represent this kind of object in type annotations with the `GenericAlias` `re.Match[str]`. If `y = re.search(b'bar', b'bar')`, (note the `b` for bytes), `y` will also be an instance of `re.Match`, but the return values of `y.group(0)` and `y[0]` will both be of type `bytes`. In type annotations, we would represent this variety of `re.Match` objects with `re.Match[bytes]`. `GenericAlias` objects are instances of the class `types.GenericAlias`, which can also be used to create `GenericAlias` objects directly. `T[X, Y, ...]` Creates a `GenericAlias` representing a type `T` parameterized by types `X`, `Y`, and more depending on the `T` used. For example, a function expecting a list containing float elements: `def average(values: list[float]) -> float: return sum(values) / len(values)` Another example for mapping objects, using a `dict`, which is a generic type expecting two type parameters representing the key type and the value type. In this example, the function expects a `dict` with keys of type `str` and values of type `int`: `def send_post_request(url: str, body: dict[str, int]) -> None: ...` The builtin functions `isinstance()` and `issubclass()` do not accept `GenericAlias` types for their second argument: `>>> isinstance([1, 2], list[str])` Traceback (most recent call last): File "", line 1, in `TypeError`: `isinstance()` argument 2 cannot be a parameterized generic The Python runtime does not enforce type annotations. This extends to generic types and their type parameters. When creating a container object from a `GenericAlias`, the elements in the container are not checked against their type. For example, the following code is discouraged, but will run without errors: `>>> t = list[str] >>> t([1, 2, 3]) [1, 2, 3]` Furthermore, parameterized generics erase type parameters during object creation: `>>> t = list[str] >>> type(t) >>> l = t() >>> type(l)` Calling `repr()` or `str()` on a generic shows the parameterized type: `>>> repr(list[int])` 'list[int]' `>>> str(list[int])` 'list[int]' The `_getitem_()` method of generic containers will raise an exception to disallow mistakes like `dict[str][str]`: `>>> dict[str][str]` Traceback (most recent call last): File "", line 1, in `TypeError`: There are no type variables left in `dict[str]` However, such expressions are valid when type variables are used. The index must have as many elements as there are type variable items in the `GenericAlias` object's `_args_`. `>>> from typing import TypeVar >>> Y = TypeVar('Y') >>> dict[str, Y][int]` The following standard library classes support parameterized generics. This list is non-exhaustive. All parameterized generics implement special read-only attributes. `genericalias._origin_`¶ This attribute points at the non-parameterized generic class: `>>> list[int]._origin_` `genericalias._args_`¶ This attribute is a tuple (possibly of length 1) of generic types passed to the original `_class_getitem_()` of the generic class: `>>> dict[str, list[int]]._args_` (, `list[int]`) `genericalias._parameters_`¶ This attribute is a lazily computed tuple (possibly empty) of unique type variables found in `_args_`: `>>> from typing import TypeVar >>> T = TypeVar('T') >>> list[T]._parameters_` (`~T,`) Note A `GenericAlias` object with `typing.ParamSpec` parameters may not have correct `_parameters_` after substitution because `typing.ParamSpec` is intended primarily for static type checking. See also PEP 484 - Type HintsIntroducing Python's framework for type annotations. PEP 585 - Type Hinting Generics In Standard CollectionsIntroducing the ability to natively parameterize standard-library classes, provided they implement the special class method `_class_getitem_()`. Generics, user-defined generics and `typing.Generic`Documentation on how to implement generic classes that can be parameterized at runtime and understood by static type-checkers. A `union` object holds the value of the `|` (bitwise or) operation on multiple type objects. These types are intended primarily for type annotations. The `union` type expression enables cleaner type hinting syntax compared to `typing.Union`. `X | Y | ...` Defines a `union` object which holds types `X`, `Y`, and so forth. `X | Y` means either `X` or `Y`. It is equivalent to `typing.Union[X, Y]`. For example, the following function expects an argument of type `int` or `float`: `def square(number: int | float) -> int | float: return number ** 2` `union` objects can be tested for equality with other `union` objects. Details: Unions of unions are flattened: `(int | str) | float == int | str | float` Redundant types are removed: `int | str | int == int | str` When comparing unions, the order is ignored: It is compatible with `typing.Union`: `int | str == typing.Union[int, str]` Optional types can be spelled as a union with `None`: `str | None == typing.Optional[str]` `isinstance(obj, union_object)` `issubclass(obj, union_object)` Calls to `isinstance()` and `issubclass()` are also supported with a `union` object: `>>> isinstance("", int | str)` True However, `union` objects containing parameterized generics cannot be used: `>>> isinstance(1, int | list[int])` Traceback (most recent call last): File "", line 1, in `TypeError`: `isinstance()` argument 2 cannot contain a parameterized generic The user-exposed type for the `union` object can be accessed from `types.UnionType` and used for `isinstance()` checks. An object cannot be instantiated from the type: `>>> import types >>> isinstance(int | str, types.UnionType)` True `>>> types.UnionType` Traceback (most recent call last): File "", line 1, in `TypeError`: cannot create 'types.UnionType' instances Note The `_or_()` method for type objects was added to support the syntax `X | Y`. If a metaclass implements `_or_()`, the `Union` may override it: `>>> class M(type): ... def _or_(self, other): ... return "Hello" ... >>> class C(metaclass=M): ... pass ... >>> C | int 'Hello' >>> int | C int | _main_.C See also PEP 604 – PEP proposing the X | Y syntax and the Union type. The interpreter supports several other kinds of objects. Most of these support only one or two operations. The only special operation on a module is attribute access: m.name, where m is a module and name accesses a name defined in m's symbol table. Module attributes can be assigned to. (Note that the import statement is not, strictly speaking, an operation on a module object; import foo does not require a module object named foo to exist, rather it requires an (external) definition for a module named foo somewhere.) A special attribute of every module is _dict_. This is the dictionary containing the module's symbol table. Modifying this dictionary will actually change the module's symbol table, but direct assignment to the _dict_ attribute is not possible (you can write m._dict_['a'] = 1, which defines m.a to be 1, but you can't write m._dict_ = {}). Modifying _dict_ directly is not recommended. Modules built into the interpreter are written like this: . If loaded from a file, they are written as . See Objects, values and types and Class definitions for these. Function objects are created by function definitions. The only operation on a function object is to call it: func(argument-list). There are really two flavors of function objects: built-in functions and user-defined functions. Both support the same operation (to call the function), but the implementation is different, hence the different object types. See Function definitions for more information. Methods are functions that are called using the attribute notation. There are two flavors: built-in methods (such as append() on lists) and class instance methods. Built-in methods are described with the types that support them. If you access a method (a function defined in a class namespace) through an instance, you get a special object: a bound method (also called instance method) object. When called, it will add the self argument to the argument list. Bound methods have two special read-only attributes: m._self_ is the object on which the method operates, and m._func_ is the function implementing the method. Calling m(arg-1, arg-2, ..., arg-n) is completely equivalent to calling m._func_(m._self_, arg-1, arg-2, ..., arg-n). Like function objects, bound method objects support getting arbitrary attributes. However, since method attributes are actually stored on the underlying function object (meth._func_), setting method attributes on bound methods is disallowed. Attempting to set an attribute on a method results in an AttributeError being raised. In order to set a method attribute, you need to explicitly set it on the underlying function object: >>> class C: ... def method(self): ... pass ... >>> c = C() >>> c.method.whoami = 'my name is method' # can't set on the method Traceback (most recent call last): File "", line 1, in AttributeError: 'method' object has no attribute 'whoami' >>> c.method._func_.whoami = 'my name is method' >>> c.method.whoami 'my name is method' See The standard type hierarchy for more information. Code objects are used by the implementation to represent "pseudo-compiled" executable Python code such as a function body. They differ from function objects because they don't contain a reference to their global execution environment. Code objects are returned by the built-in compile() function and can be extracted from function objects through their _code_ attribute. See also the code module. Accessing _code_ raises an auditing event object. _getattr_ with arguments obj and "_code_". A code object can be executed or evaluated by passing it (instead of a source string) to the exec() or eval() built-in functions. See The standard type hierarchy for more information. Type objects represent the various object types. An object's type is accessed by the built-in function type(). There are no special operations on types. The standard module types defines names for all standard built-in types. Types are written like this: . This object is returned by functions that don't explicitly return a value. It supports no special operations. There is exactly one null object, named None (a built-in name). type(None)() produces the same singleton. It is written as None. This object is commonly used by slicing (see Slicings). It supports no special operations. There is exactly one ellipsis object, named Ellipsis (a built-in name). type(Ellipsis)() produces the Ellipsis singleton. It is written as Ellipsis or This object is returned from comparisons and binary operations when they are asked to operate on types they don't support. See Comparisons for more information. There is exactly one NotImplemented object. type(NotImplemented)() produces the NotImplemented instance. It is written as NotImplemented. Boolean values are the two constant objects False and True. They are used to represent truth values (although other values can also be considered false or true). In numeric contexts (for example when used as the argument to an arithmetic operator), they behave like the integers 0 and 1, respectively. The built-in function bool() can be used to convert any value to a Boolean, if the value can be interpreted as a truth value (see section Truth Value Testing above). They are written as False and True, respectively. See The standard type hierarchy for this information. It describes stack frame objects, traceback objects, and slice objects. The implementation adds a few special read-only attributes to several object types where they are relevant. Some of these are not reported by the dir() built-in function. object.__dict__ A dictionary map, then mapping a object's instance's class to its class. ¶ The tuple of base classes of a class object's definition. name ¶ The name of`

types, where they are relevant. Some of these are not reported by the `dir()` built-in function. `object.__dict__`¶ A dictionary or other mapping object used to store an object's (writable) attributes. `instance.__class__`¶ The class to which a class instance belongs. `class.__bases__`¶ The tuple of base classes of a class object. `definition.__name__`¶ The name of the class, function, method, descriptor, or generator instance. `definition.__qualname__`¶ The qualified name of the class, function, method, descriptor, or generator instance. `class.__mro__`¶ This attribute is a tuple of classes that are considered when looking for base classes during method resolution. `class.mro()`¶ This method can be overridden by a metaclass to customize the method resolution order for its instances. It is called at class instantiation, and its result is stored in `__mro__`. `class.__subclasses__()`¶ Each class keeps a list of weak references to its immediate subclasses. This method returns a list of all those references still alive. The list is in definition order. Example: `>>> int.__subclasses__() []` CPython has a global limit for converting between `int` and `str` to mitigate denial of service attacks. This limit only applies to decimal or other non-power-of-two number bases. Hexadecimal, octal, and binary conversions are unlimited. The limit can be configured. The `int` type in CPython is an arbitrary length number stored in binary form (commonly known as a "bignum"). There exists no algorithm that can convert a string to a binary integer or a binary integer to a string in linear time, unless the base is a power of 2. Even the best known algorithms for base 10 have sub-quadratic complexity. Converting a large value such as `int('1' * 500_000)` can take over a second on a fast CPU. Limiting conversion size offers a practical way to avoid CVE-2020-10735. The limit is applied to the number of digit characters in the input or output string when a non-linear conversion algorithm would be involved. Underscores and the sign are not counted towards the limit. When an operation would exceed the limit, a `ValueError` is raised: `>>> import sys >>> sys.set_int_max_str_digits(4300) # Illustrative, this is the default. >>> i = int('2' * 5432)` Traceback (most recent call last): ... `ValueError: Exceeds the limit (4300) for integer string conversion: value has 5432 digits.` `>>> len(str(i)) 4300 >>> i squared = i*i >>> len(str(i squared))` Traceback (most recent call last): ... `ValueError: Exceeds the limit (4300) for integer string conversion: value has 5432 digits.`

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