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# `match_spec`#
Implements the query language for conda packages (a.k.a, MatchSpec).
The MatchSpec is the conda package specification (e.g. conda==23.3,
python<3.7, cryptography * *_0) and is used to communicate the desired
packages to install.
## Classes#
`MatchSpecType` |
---|---
`MatchSpec` | The query language for conda packages.
`MatchInterface` |
`_StrMatchMixin` |
`ExactStrMatch` |
`ExactLowerStrMatch` |
`GlobStrMatch` |
```

* [`cli`](../../conda_env/cli/index.html)

```
`GlobLowerStrMatch` |
`SplitStrMatch` |
`FeatureMatch` |
`ChannelMatch` |
`CaseInsensitiveStrMatch` |
## Functions#
`_parse_version_plus_build`(v_plus_b) | This should reliably pull the build string out of a version +
build string combo.
---|---
`_parse_legacy_dist`(dist_str) |
`_parse_channel`(channel_val) |
`_parse_spec_str`(spec_str) |
## Attributes#
`_PARSE_CACHE` |
---|---
`_implementors` |
_class _MatchSpecType#
Bases: [`type`](https://docs.python.org/3/library/functions.html#type "\(in
Python v3.13\)")
```

```
__call__(_spec_arg =None_, _** kwargs_)#
```

Call self as a function.

_class _MatchSpec(_optional =False_, _target =None_, _** kwargs_)#

The query language for conda packages.

Any of the fields that comprise a `PackageRecord` can be used to compose a `MatchSpec`.

`MatchSpec` can be composed with keyword arguments, where keys are any of the attributes of `PackageRecord`. Values for keyword arguments are the exact values the attribute should match against. Many fields can also be matched against non-exact values--by including wildcard * and >/< ranges--where supported. Any non-specified field is the equivalent of a full wildcard match.

'MatchSpec' can also be composed using a single positional argument, with optional keyword arguments. Keyword arguments also override any conflicting information provided in the positional argument. The positional argument can be either an existing 'MatchSpec' instance or a string. Conda has historically supported more than one string representation for equivalent 'MatchSpec'

queries. This `MatchSpec` should accept any existing valid spec string, and correctly compose a `MatchSpec` instance.

A series of rules are now followed for creating the canonical string representation of a `MatchSpec` instance. The canonical string representation can generically be represented by

> (channel(/subdir):(namespace):)name(version(build))[key1=value1,key2=value2]

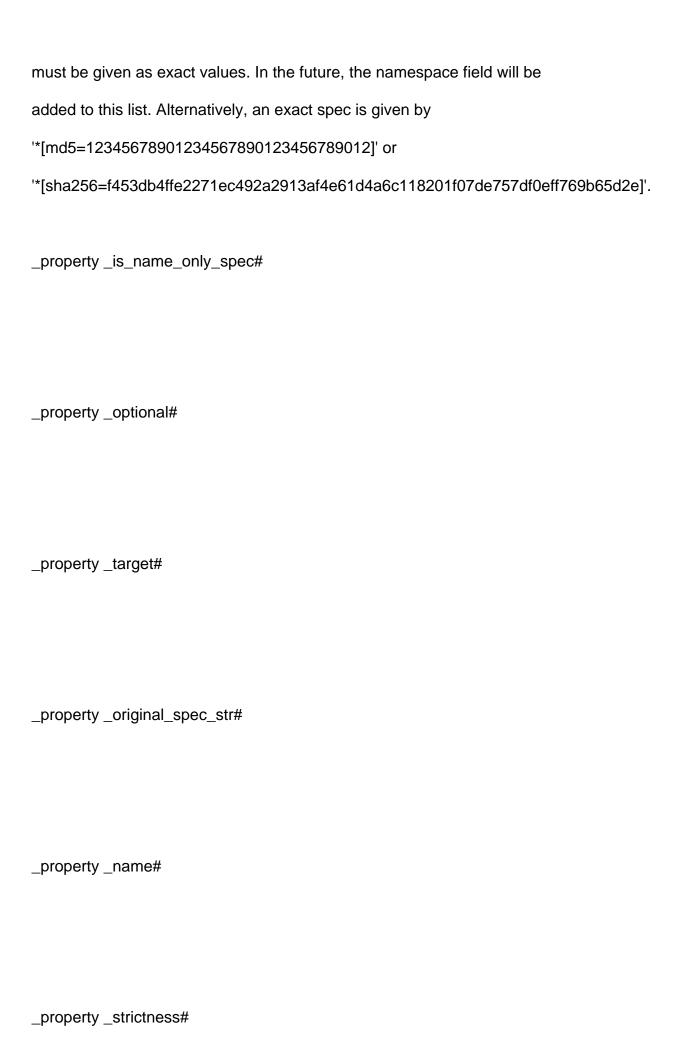
where () indicate optional fields. The rules for constructing a canonical string representation are:

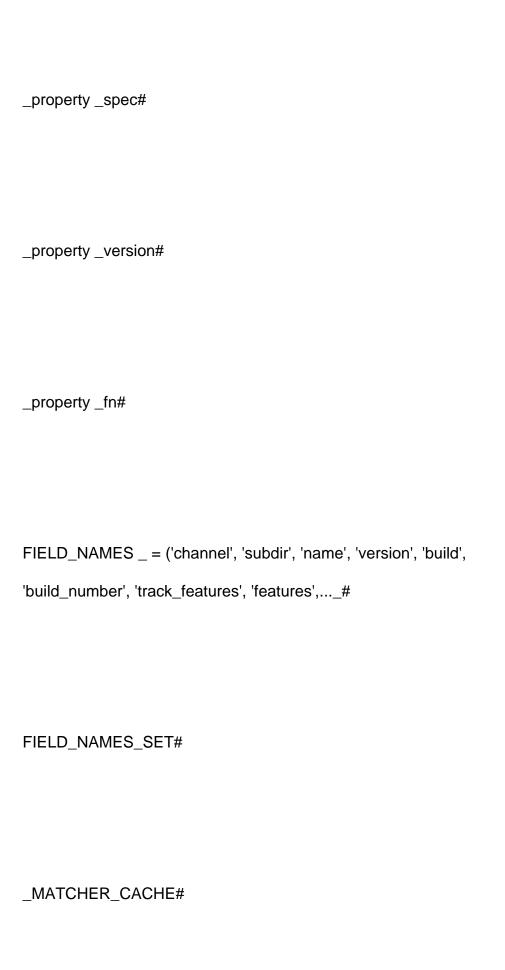
- 1. name (i.e. "package name") is required, but its value can be '*'. Its position is always outside the key-value brackets.
- 2. If version is an exact version, it goes outside the key-value brackets and is prepended by ==. If version is a "fuzzy" value (e.g. 1.11.*), it goes outside the key-value brackets with the .* left off and is prepended by =. Otherwise version is included inside key-value brackets.
- 3. If version is an exact version, and build is an exact value, build goes outside key-value brackets prepended by a =. Otherwise, build goes inside key-value brackets. build_string is an alias for build.
 - 4. The namespace position is being held for a future conda feature.
- 5. If channel is included and is an exact value, a :: separator is ued between channel and name. channel can either be a canonical channel name or a channel url. In the canonical string representation, the canonical channel name will always be used.

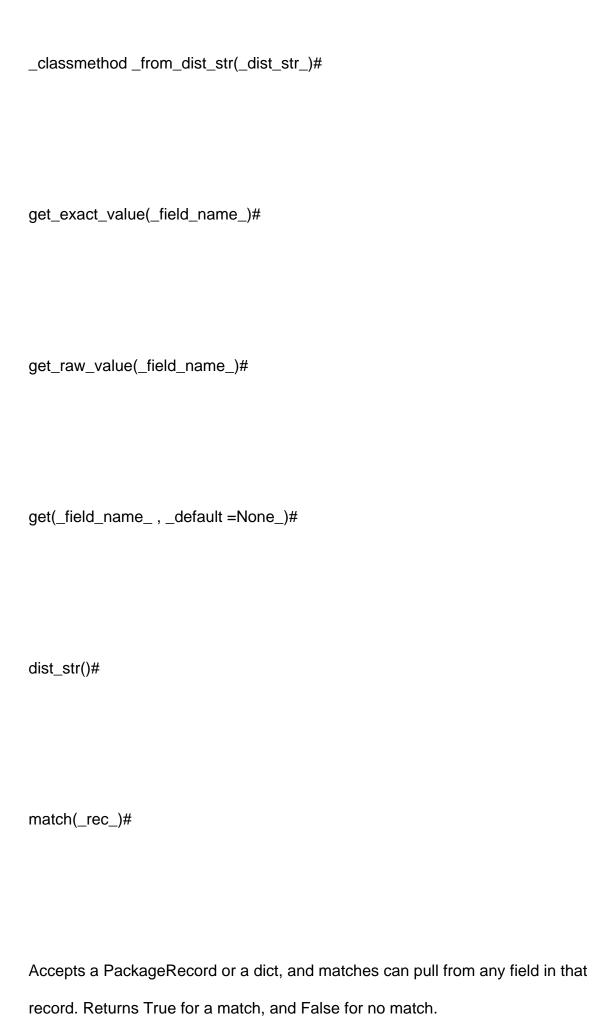
6. If channel is an exact value and subdir is an exact value, subdir is appended to channel with a
separator. Otherwise, subdir is included in the key-value brackets.
7. Key-value brackets can be delimited by comma, space, or comma+space. Value can optionally
be wrapped in single or double quotes, but must be wrapped if value contains a comma, space, or
equal sign. The canonical format uses comma delimiters and single quotes.
8. When constructing a `MatchSpec` instance from a string, any key-value pair given inside the
key-value brackets overrides any matching parameter given outside the brackets.
When `MatchSpec` attribute values are simple strings, the are interpreted
using the following conventions:
> * If the string begins with ^ and ends with \$, it is converted to a regex.
>
> * If the string contains an asterisk (*), it is transformed from a glob to
> a regex.
>
> * Otherwise, an exact match to the string is sought.
>
>
Examples

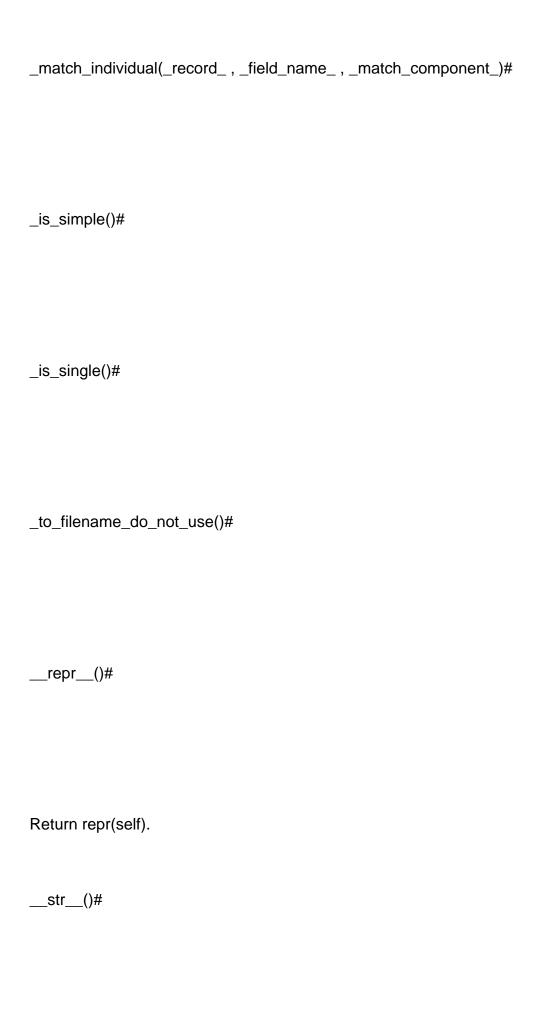
```
>>> str(MatchSpec(name='foo', build='py2*', channel='conda-forge'))
  'conda-forge::foo[build=py2*]'
  >>> str(MatchSpec('foo 1.0 py27_0'))
  'foo==1.0=py27_0'
  >>> str(MatchSpec('foo=1.0=py27_0'))
  'foo==1.0=py27_0'
  >>> str(MatchSpec('conda-forge::foo[version=1.0.*]'))
  'conda-forge::foo=1.0'
  >>> str(MatchSpec('conda-forge/linux-64::foo>=1.0'))
  "conda-forge/linux-64::foo[version='>=1.0']"
  >>> str(MatchSpec('*/linux-64::foo>=1.0'))
  "foo[subdir=linux-64,version='>=1.0']"
To fully-specify a package with a full, exact spec, the fields
 * channel
 * subdir
 * name
 * version
```

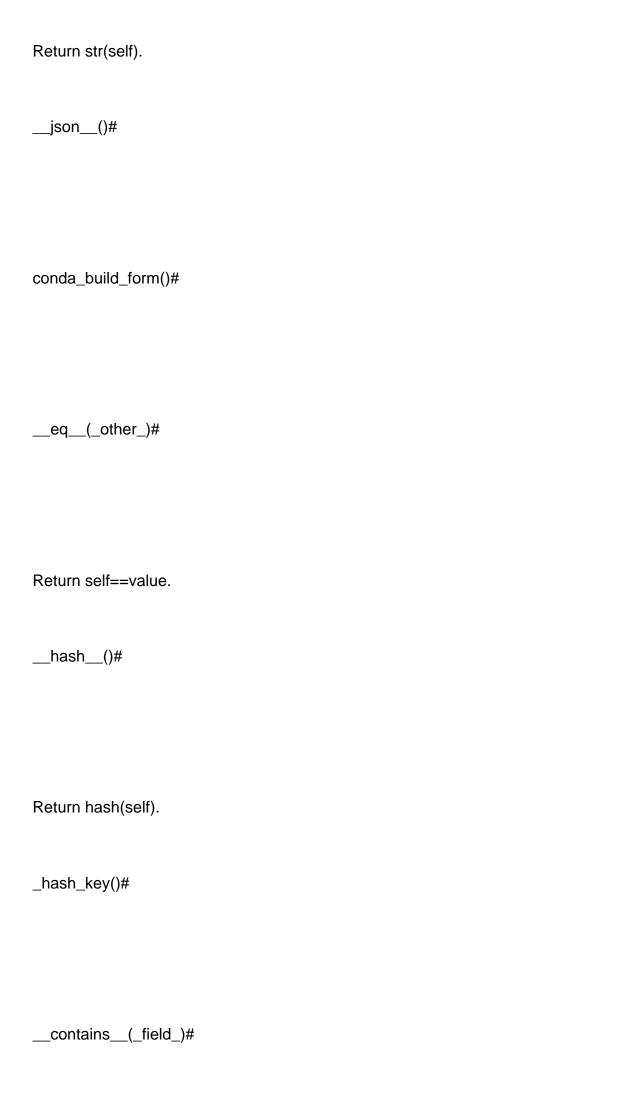
* build











```
_build_components(_** kwargs_)#
_static __make_component(_field_name_ , _value_)#
_classmethod _merge(_match_specs_ , _union =False_)#
_classmethod _union(_match_specs_)#
_merge(_other_ , _union =False_)#
_parse_version_plus_build(_v_plus_b_)#
```

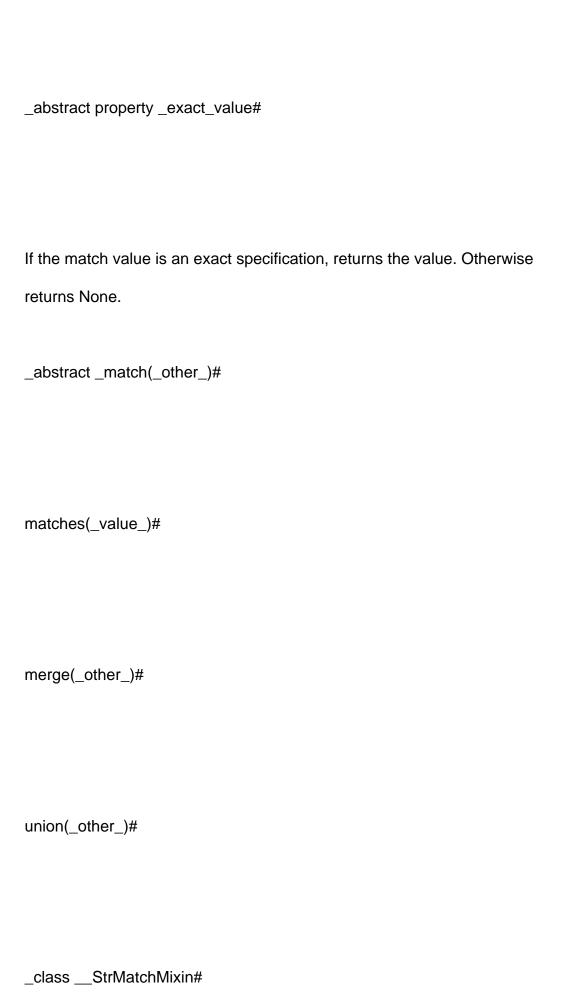
This should reliably pull the build string out of a version + build string combo. .. rubric:: Examples

```
>>> _parse_version_plus_build("=1.2.3 0")
('=1.2.3', '0')
>>> _parse_version_plus_build("1.2.3=0")
('1.2.3', '0')
>>> _parse_version_plus_build(">=1.0 , < 2.0 py34_0")
('>=1.0,<2.0', 'py34_0')
>>> _parse_version_plus_build(">=1.0 , < 2.0 =py34_0")
('>=1.0,<2.0', 'py34_0')
>>> _parse_version_plus_build("=1.2.3 ")
('=1.2.3', None)
>>> _parse_version_plus_build(">1.8,<2|==1.7")
('>1.8,<2|==1.7', None)
>>> _parse_version_plus_build("* openblas_0")
('*', 'openblas_0')
>>> _parse_version_plus_build("* *")
('*', '*')
```

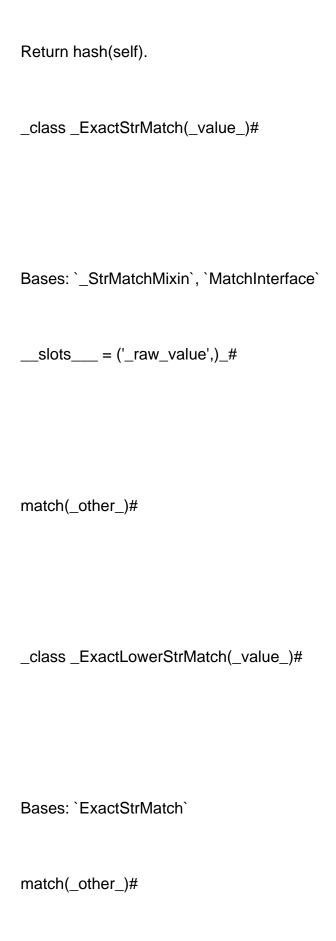
_parse_legacy_dist(_dist_str_)#

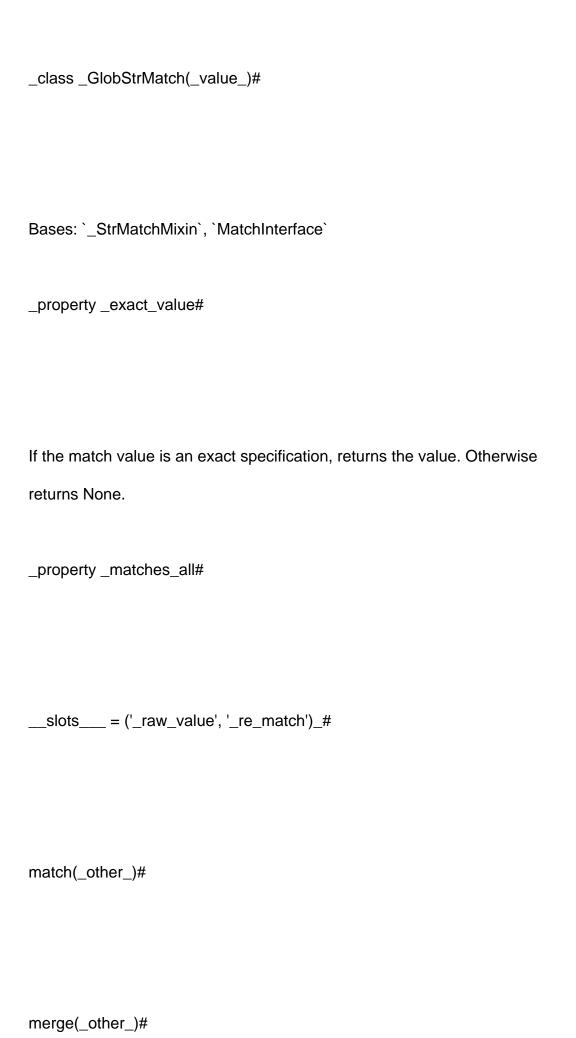
```
>>> _parse_legacy_dist("_license-1.1-py27_1.tar.bz2")
  ('_license', '1.1', 'py27_1')
  >>> _parse_legacy_dist("_license-1.1-py27_1")
  ('_license', '1.1', 'py27_1')
_parse_channel(_channel_val_)#
_PARSE_CACHE#
_parse_spec_str(_spec_str_)#
_class _MatchInterface(_value_)#
```

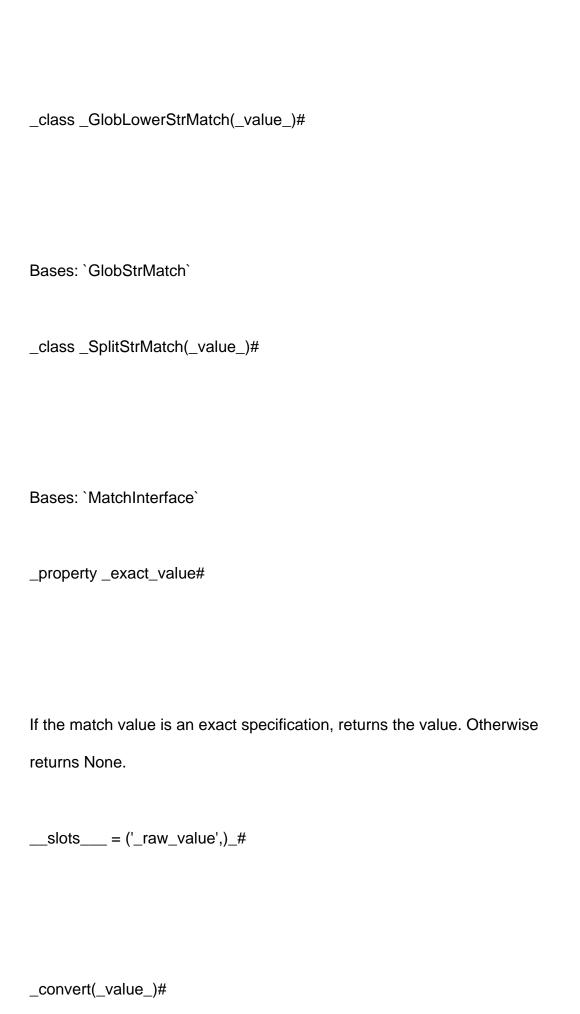
_property _raw_value#



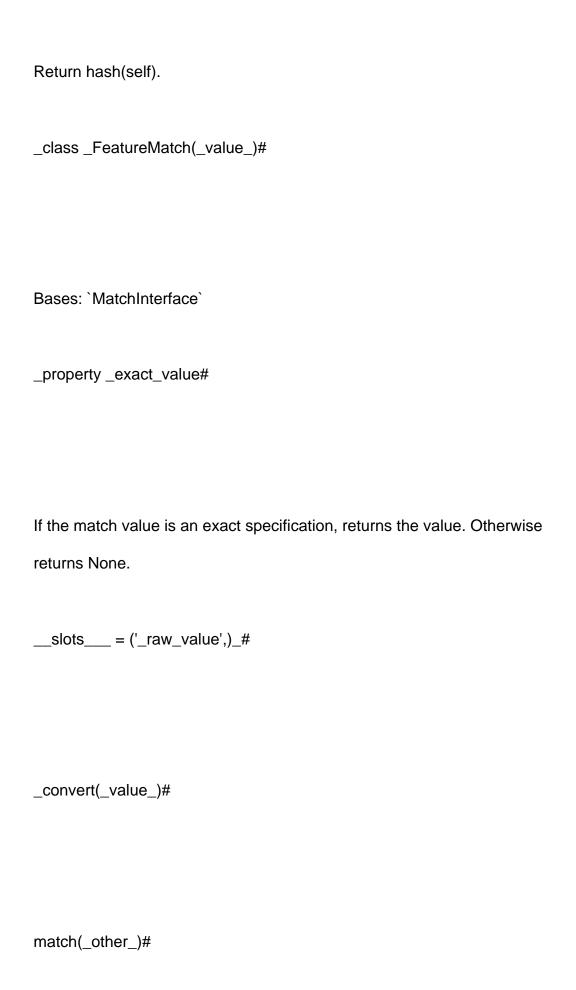
_property _exact_value#
str()#
Return str(self).
repr()#
Return repr(self).
eq(_other_)#
Return self==value.
hash()#



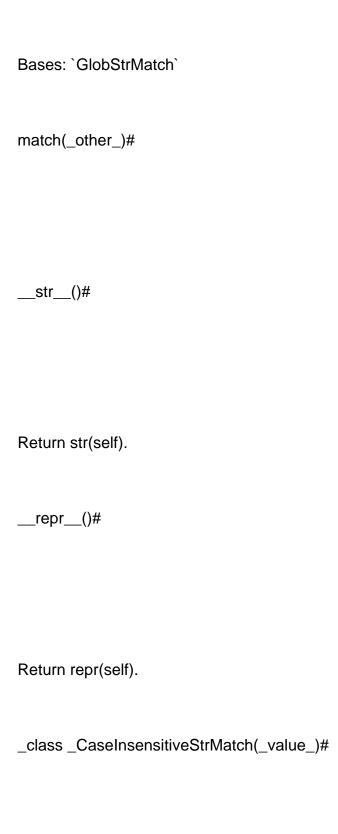




match(_other_)#
repr()#
Return repr(self).
str()#
Return str(self).
eq(_other_)#
Return self==value.
hash()#



repr()#
Return repr(self).
str()#
Return str(self)eq(_other_)#
Return self==value.
hash()#
Return hash(self).
_class _ChannelMatch(_value_)#



Bases: `GlobLowerStrMatch`

```
match(_other_)#
_implementors#
  On this page
 * Classes
 * Functions
 * Attributes
  * `MatchSpecType`
   * `MatchSpecType.__call__()`
  * `MatchSpec`
   * `MatchSpec.is_name_only_spec`
   * `MatchSpec.optional`
   * `MatchSpec.target`
   * `MatchSpec.original_spec_str`
   * `MatchSpec.name`
   * `MatchSpec.strictness`
   * `MatchSpec.spec`
   * `MatchSpec.version`
   * `MatchSpec.fn`
   * `MatchSpec.FIELD_NAMES`
   * `MatchSpec.FIELD_NAMES_SET`
```

```
* `MatchSpec._MATCHER_CACHE`
 * `MatchSpec.from_dist_str()`
 * `MatchSpec.get_exact_value()`
 * `MatchSpec.get_raw_value()`
 * `MatchSpec.get()`
 * `MatchSpec.dist_str()`
 * `MatchSpec.match()`
 * `MatchSpec._match_individual()`
 * `MatchSpec. is simple()`
 * `MatchSpec._is_single()`
 * `MatchSpec._to_filename_do_not_use()`
 * `MatchSpec.__repr__()`
 * `MatchSpec.__str__()`
 * `MatchSpec.__json__()`
 * `MatchSpec.conda_build_form()`
 * `MatchSpec.__eq__()`
 * `MatchSpec.__hash__()`
 * `MatchSpec._hash_key()`
 * `MatchSpec. contains ()`
 * `MatchSpec._build_components()`
 * `MatchSpec._make_component()`
 * `MatchSpec.merge()`
 * `MatchSpec.union()`
 * `MatchSpec._merge()`
* `_parse_version_plus_build()`
* `_parse_legacy_dist()`
* `_parse_channel()`
```

- * `_PARSE_CACHE` * `_parse_spec_str()` * `MatchInterface` * `MatchInterface.raw_value` * `MatchInterface.exact_value` * `MatchInterface.match()` * `MatchInterface.matches()` * `MatchInterface.merge()` * `MatchInterface.union()` * `_StrMatchMixin` * `_StrMatchMixin.exact_value` * `_StrMatchMixin.__str__()` * `_StrMatchMixin.__repr__()` * `_StrMatchMixin.__eq__()` * `_StrMatchMixin.__hash__()` * `ExactStrMatch` * `ExactStrMatch.__slots__` * `ExactStrMatch.match()` * `ExactLowerStrMatch` * `ExactLowerStrMatch.match()` * `GlobStrMatch` * `GlobStrMatch.exact_value` * `GlobStrMatch.matches_all` * `GlobStrMatch.__slots___` * `GlobStrMatch.match()` * `GlobStrMatch.merge()`
- * `GlobLowerStrMatch`

SplitStrMatch
* `SplitStrMatch.exact_value`
* `SplitStrMatchslots`
* `SplitStrMatchconvert()`
* `SplitStrMatch.match()`
* `SplitStrMatchrepr()`
* `SplitStrMatchstr()`
* `SplitStrMatcheq()`
* `SplitStrMatchhash()`
* `FeatureMatch`
* `FeatureMatch.exact_value`
* `FeatureMatchslots`
* `FeatureMatchconvert()`
* `FeatureMatch.match()`
* `FeatureMatchrepr()`
* `FeatureMatchstr()`
* `FeatureMatcheq()`
* `FeatureMatchhash()`
* `ChannelMatch`
* `ChannelMatch.match()`
* `ChannelMatchstr()`
* `ChannelMatchrepr()`
* `CaseInsensitiveStrMatch`
* `CaseInsensitiveStrMatch.match()`
* `_implementors`

[__Edit on GitHub](https://github.com/conda/conda/edit/main/docs/source/dev-

guide/api/conda/models/match_spec/index.rst)
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