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# `api`#
Collection of conda's high-level APIs.
## Classes#
`Solver` | **Beta** While in beta, expect both major and minor changes across minor releases.
---|---
`SubdirData` | **Beta** While in beta, expect both major and minor changes across minor releases.
`PackageCacheData` | **Beta** While in beta, expect both major and minor changes across minor
releases.
`PrefixData` | **Beta** While in beta, expect both major and minor changes across minor releases.
## Attributes#
`DepsModifier` |
---|---
`UpdateModifier` |
```

\* [`cli`](../../conda\_env/cli/index.html)

DepsModifier#

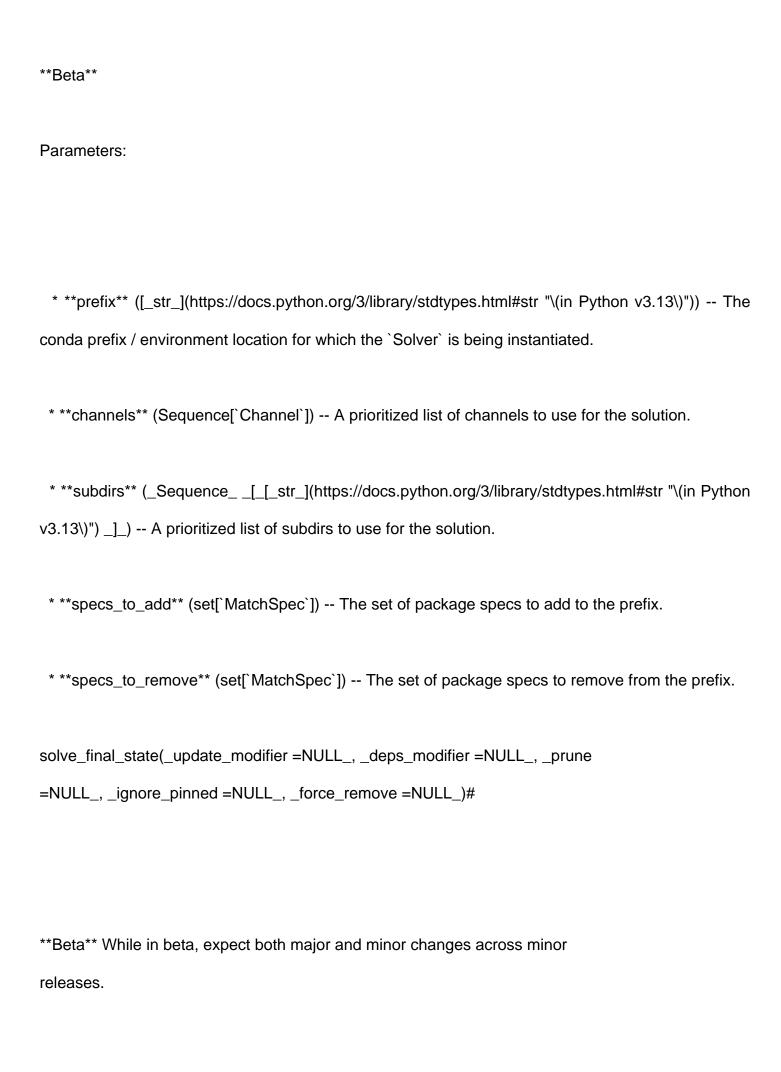
UpdateModifier#

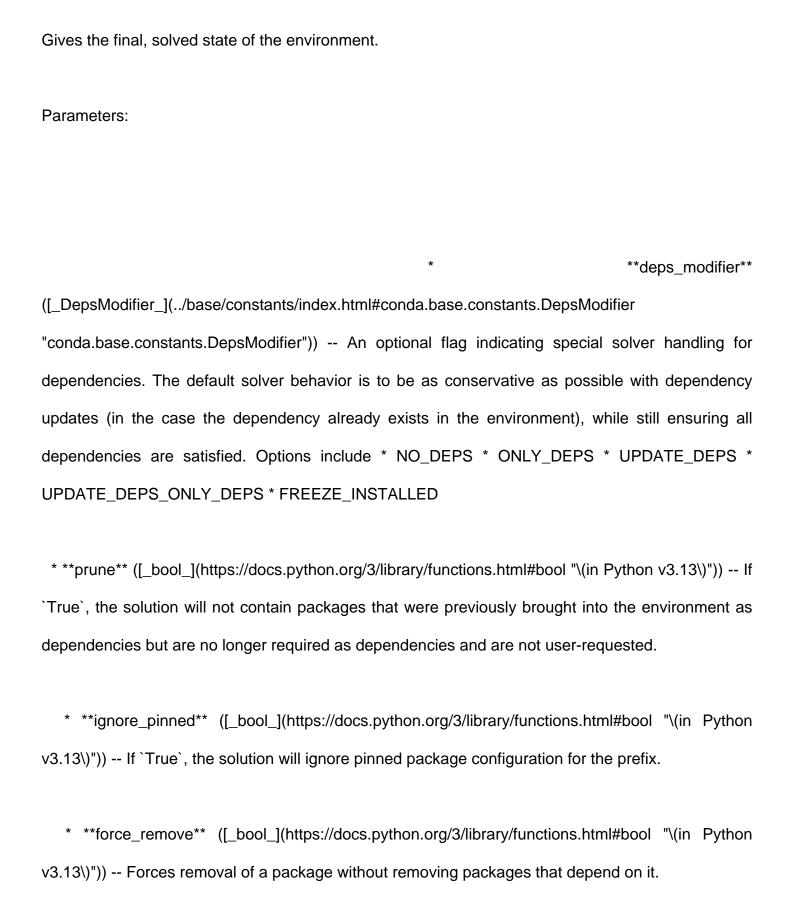
```
_class _Solver(_prefix_ , _channels_ , _subdirs =()_, _specs_to_add =()_, _specs_to_remove =()_)#
```

\*\*Beta\*\* While in beta, expect both major and minor changes across minor releases.

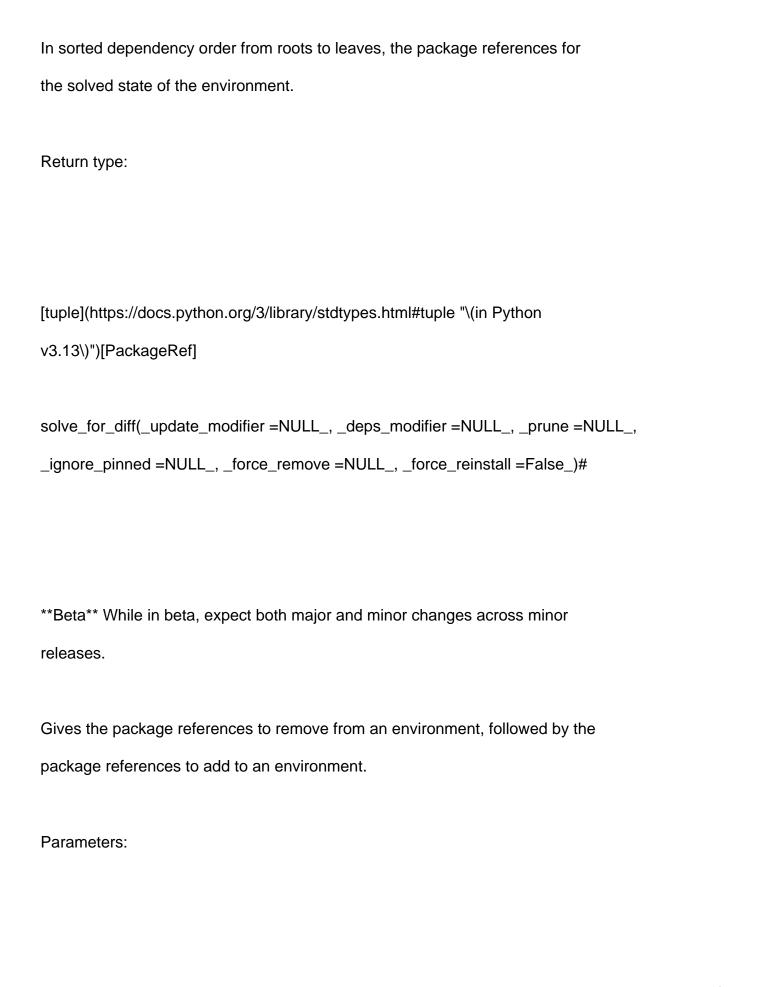
A high-level API to conda's solving logic. Three public methods are provided to access a solution in various forms.

```
> * `solve_final_state()`
>
> * `solve_for_diff()`
>
> * `solve_for_transaction()`
>
```





Returns:



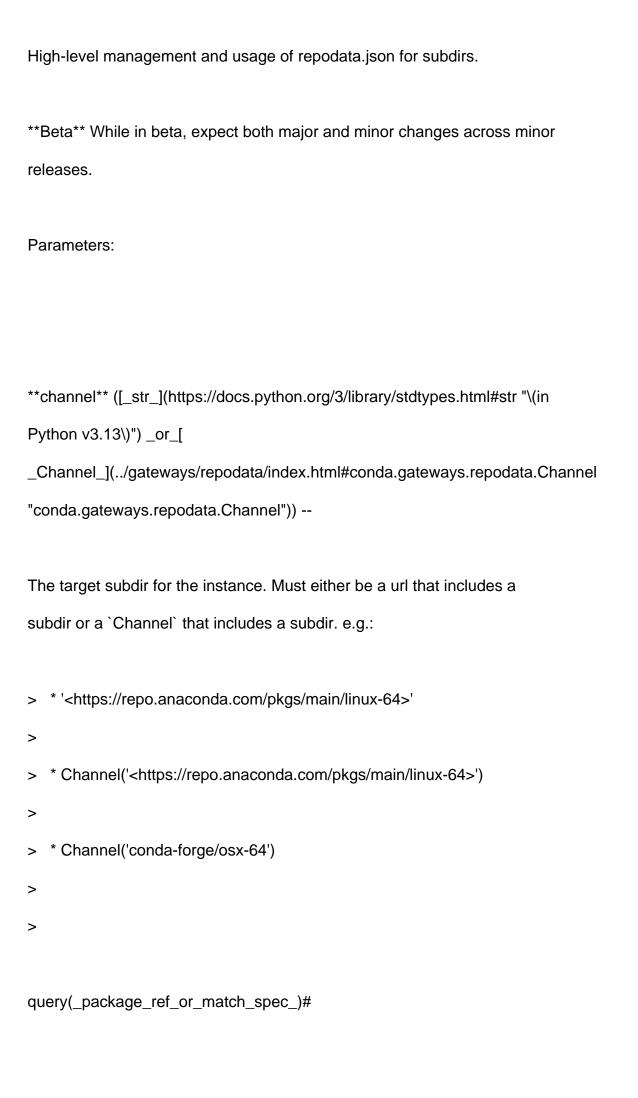
([\_DepsModifier\_](../base/constants/index.html#conda.base.constants.DepsModifier "conda.base.constants.DepsModifier")) -- See `solve\_final\_state()`. \* \*\*prune\*\* ([ bool ](https://docs.python.org/3/library/functions.html#bool "\(in Python v3.13\)")) --See `solve\_final\_state()`. \* \*\*ignore\_pinned\*\* ([\_bool\_](https://docs.python.org/3/library/functions.html#bool "\(in Python v3.13\)")) -- See `solve\_final\_state()`. \* \*\*force remove\*\* ([ bool\_](https://docs.python.org/3/library/functions.html#bool "\(in Python v3.13\)")) -- See `solve\_final\_state()`. \* \*\*force\_reinstall\*\* ([\_bool\_](https://docs.python.org/3/library/functions.html#bool "\(in Python v3.13\)")) -- For requested specs to add that are already satisfied in the environment, instructs the solver to remove the package and spec from the environment, and then add it back--possibly with the exact package instance modified, depending on the spec exactness. Returns:

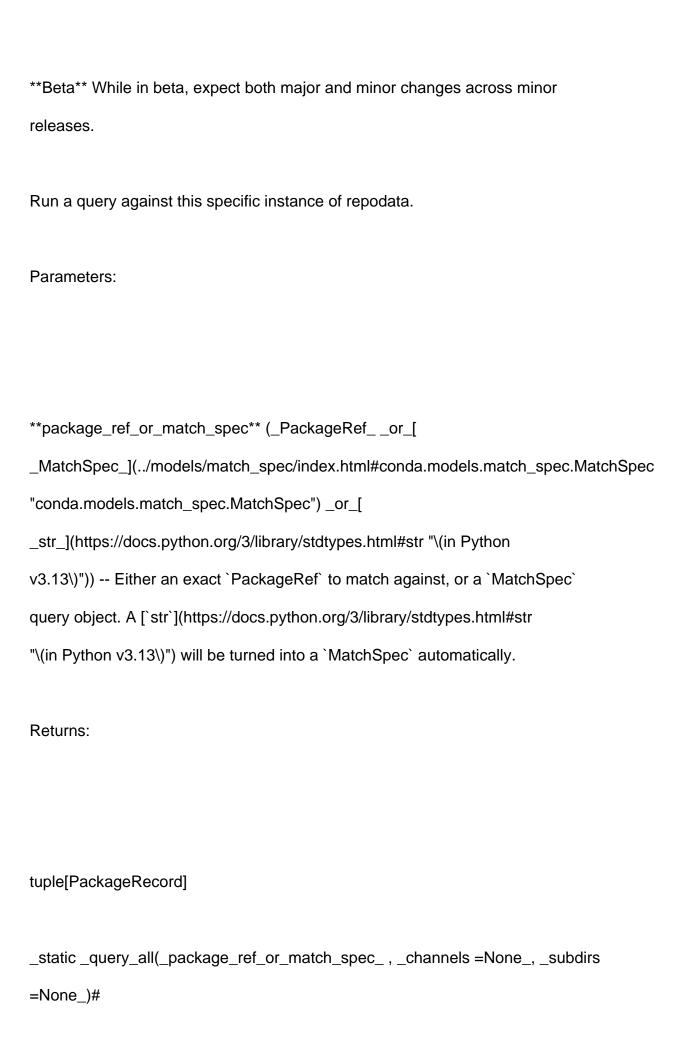
A two-tuple of PackageRef sequences. The first is the group of packages to remove from the environment, in sorted dependency order from leaves to roots. The second is the group of packages to add to the environment, in sorted dependency order from roots to leaves.

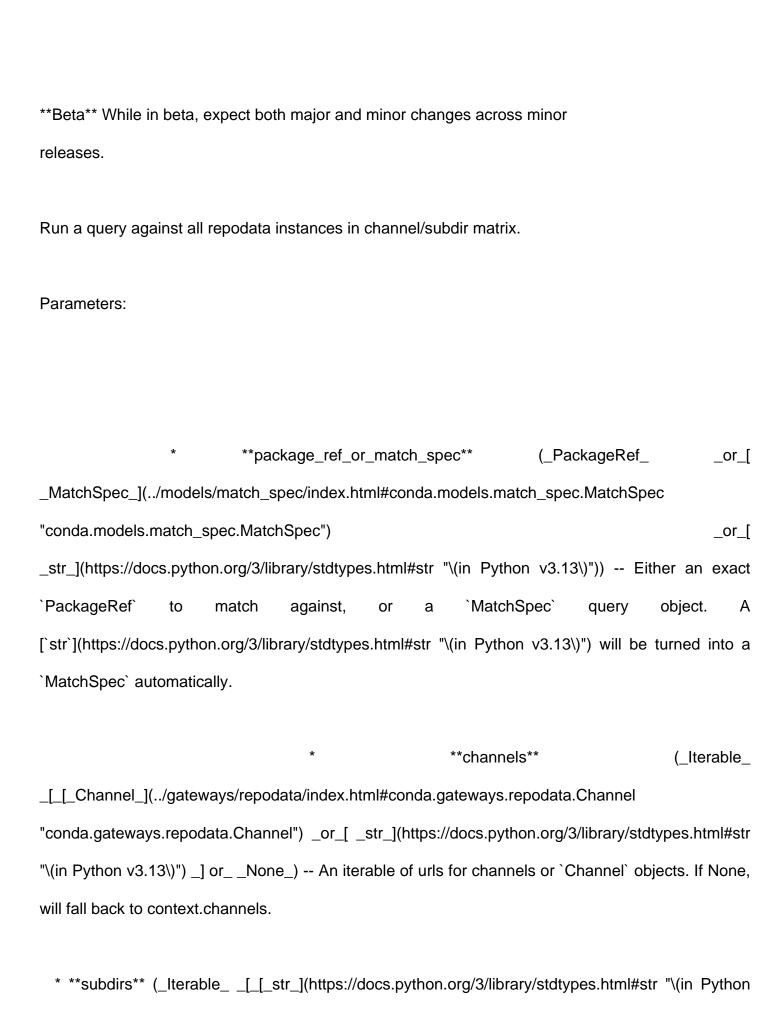
Return type:

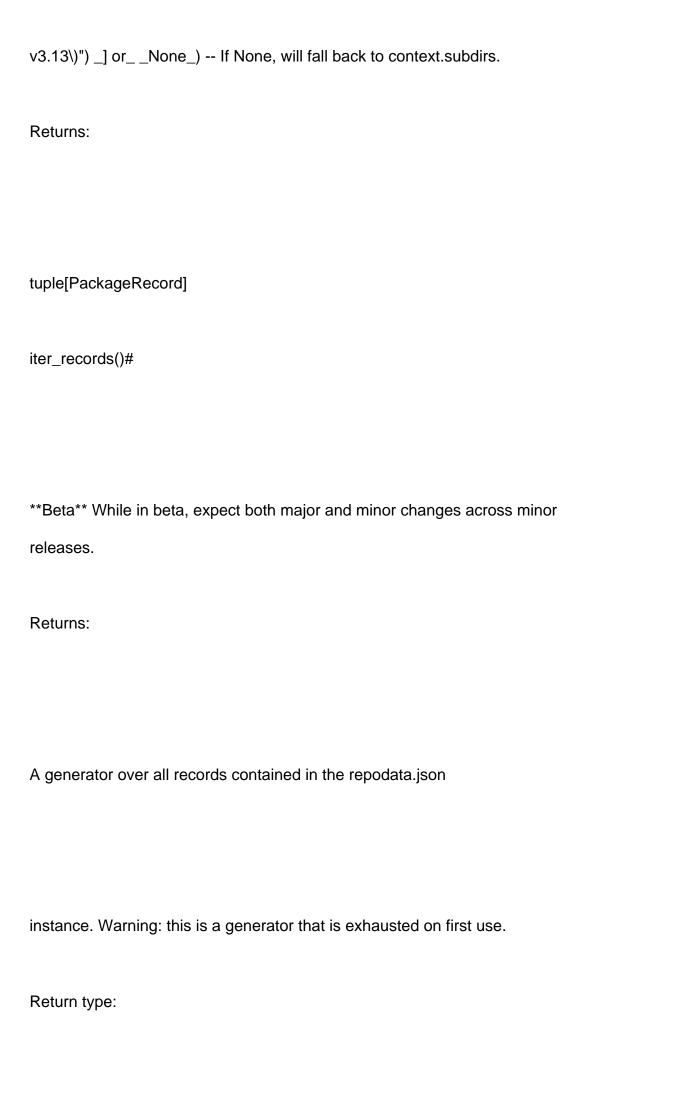
[tuple](https://docs.python.org/3/library/stdtypes.html#tuple "\(in Python	
v3.13\)")[PackageRef],	
[tuple](https://docs.python.org/3/library/stdtypes.html#tuple "\(in Python	
v3.13\)")[PackageRef]	
solve_for_transaction(_update_modifier =NULL_, _deps_modifier =NULL_, _prune	
=NULL_, _ignore_pinned =NULL_, _force_remove =NULL_, _force_reinstall	
=False_)#	
**Beta** While in beta, expect both major and minor changes across minor	
releases.	
Gives an UnlinkLinkTransaction instance that can be used to execute the	
solution on an environment.	
Parameters:	
Parameters.	
* **,	deps_modifier*
([_DepsModifier_](/base/constants/index.html#conda.base.constants.DepsModifier	20Po_modillor
"conda.base.constants.DepsModifier")) See `solve_final_state()`.	
23. 23. 25. 25. 25. 25. 25. 25. 25. 25. 25. 25	

* **prune** ([_bool_](https://docs.python.org/3/library/functions.html#bool "\(in Python See `solve_final_state()`.	ı v3.1	3\)"))
* **ignore_pinned** ([_bool_](https://docs.python.org/3/library/functions.html#bool v3.13\)")) See `solve_final_state()`.	"\(in	Python
* **force_remove** ([_bool_](https://docs.python.org/3/library/functions.html#bool v3.13\)")) See `solve_final_state()`.	"\(in	Python
* **force_reinstall** ([_bool_](https://docs.python.org/3/library/functions.html#bool v3.13\)")) See `solve_for_diff()`.	"\(in	Python
Return type:		
[UnlinkLinkTransaction](/core/link/index.html#conda.core.link.UnlinkLinkTransaction "conda.core.link.UnlinkLinkTransaction")		
_class _SubdirData(_channel_)#		
**Beta** While in beta, expect both major and minor changes across minor releases.		

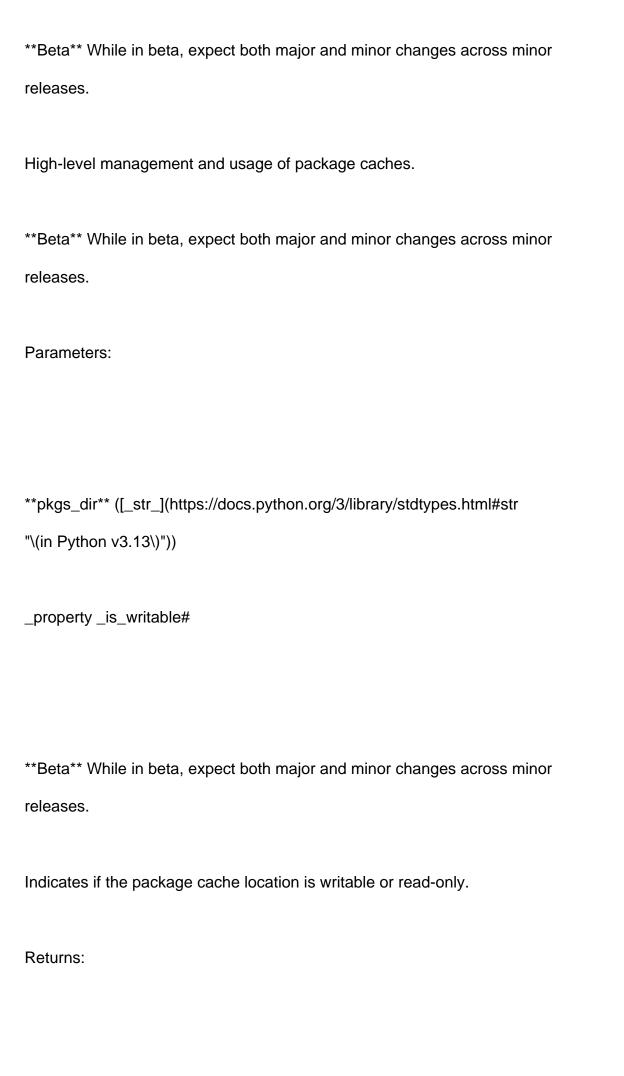


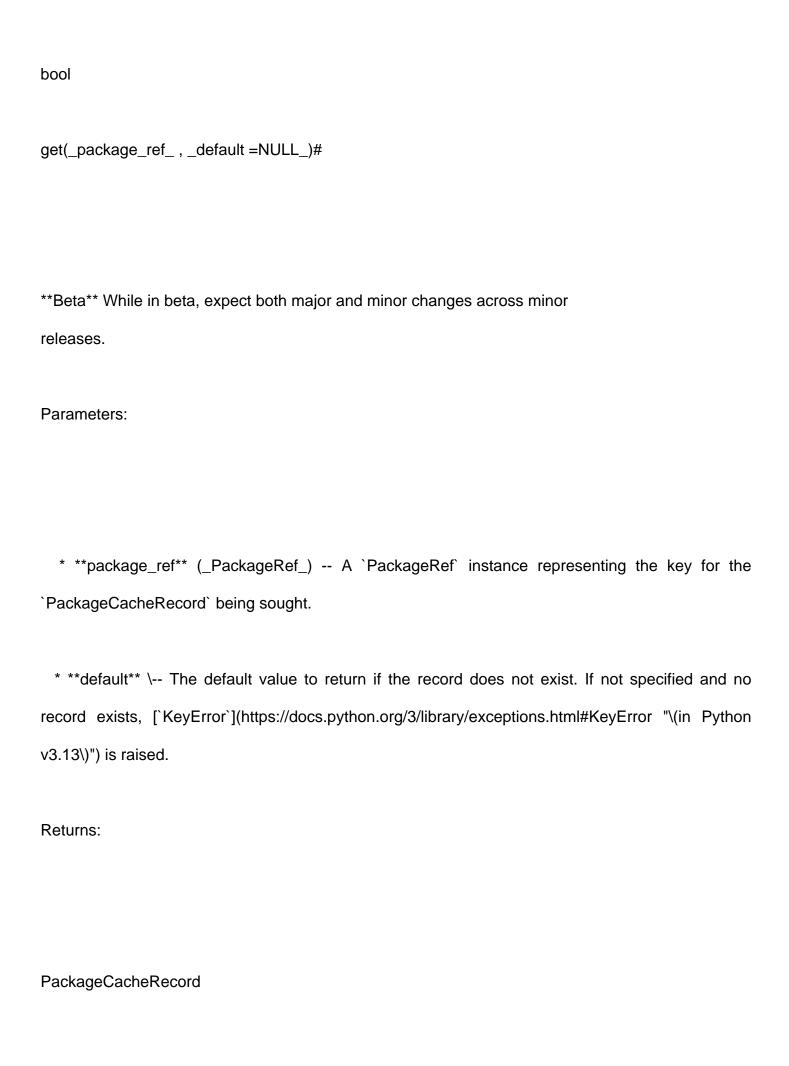




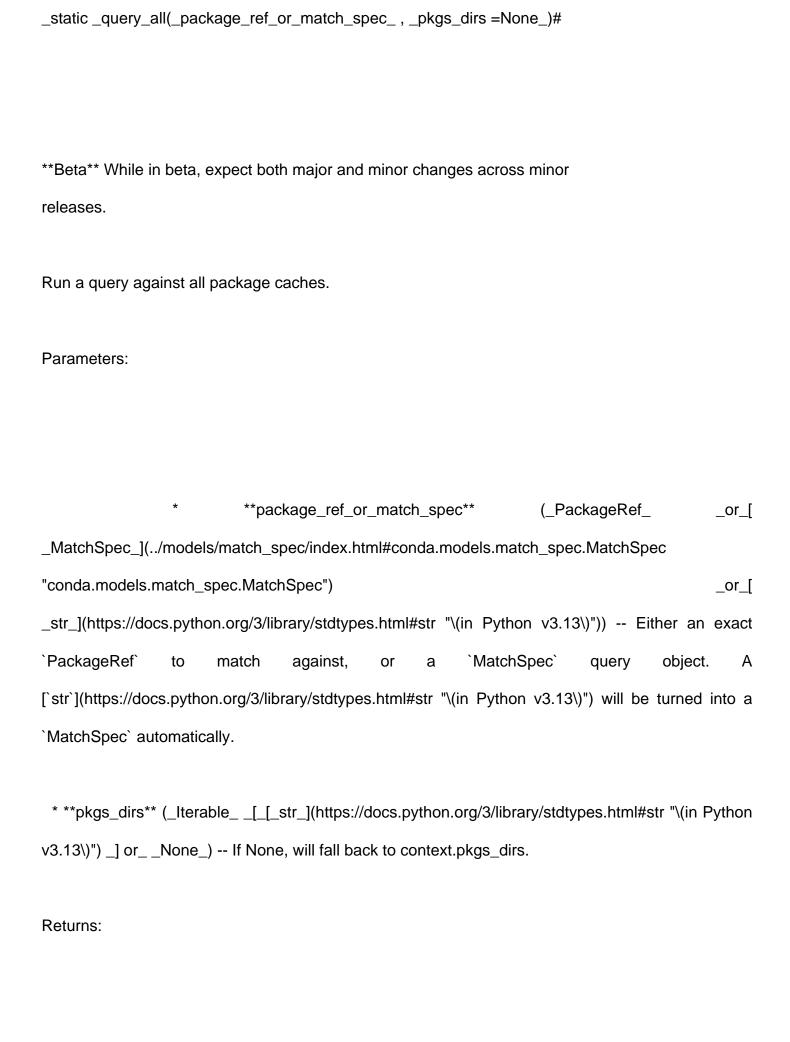


Iterable[[PackageRecord](/models/records/index.html#conda.models.records.PackageRecord
"conda.models.records.PackageRecord")]
reload()#
**Beta** While in beta, expect both major and minor changes across minor
releases.
Update the instance with new information. Backing information (i.e.
repodata.json) is lazily downloaded/loaded on first use by the other methods
of this class. You should only use this method if you are _sure_ you have
outdated data.
Returns:
SubdirData
_class _PackageCacheData(_pkgs_dir_)#



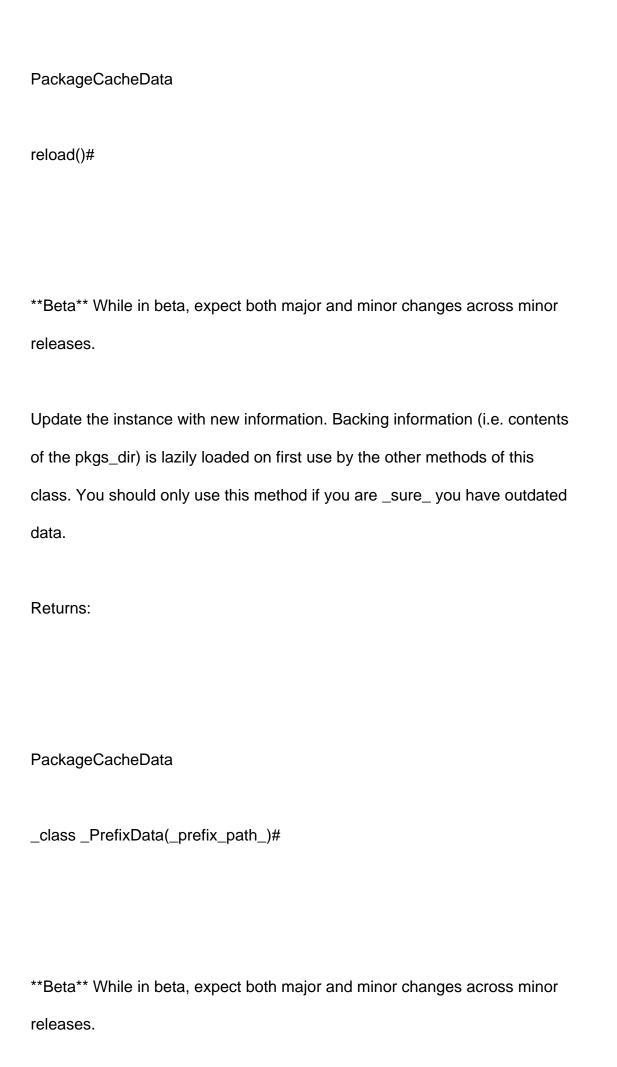


query(_package_ref_or_match_spec_)#
**Beta** While in beta, expect both major and minor changes across minor releases.
Run a query against this specific package cache instance.
Parameters:
**package_ref_or_match_spec** (_PackageRefor_[
_MatchSpec_](/models/match_spec/index.html#conda.models.match_spec.MatchSpec
_str_](https://docs.python.org/3/library/stdtypes.html#str "\(in Python
v3.13\)")) Either an exact `PackageRef` to match against, or a `MatchSpec`
query object. A [`str`](https://docs.python.org/3/library/stdtypes.html#str "\(in Python v3.13\)") will be turned into a `MatchSpec` automatically.
Returns:
tuple[PackageCacheRecord]



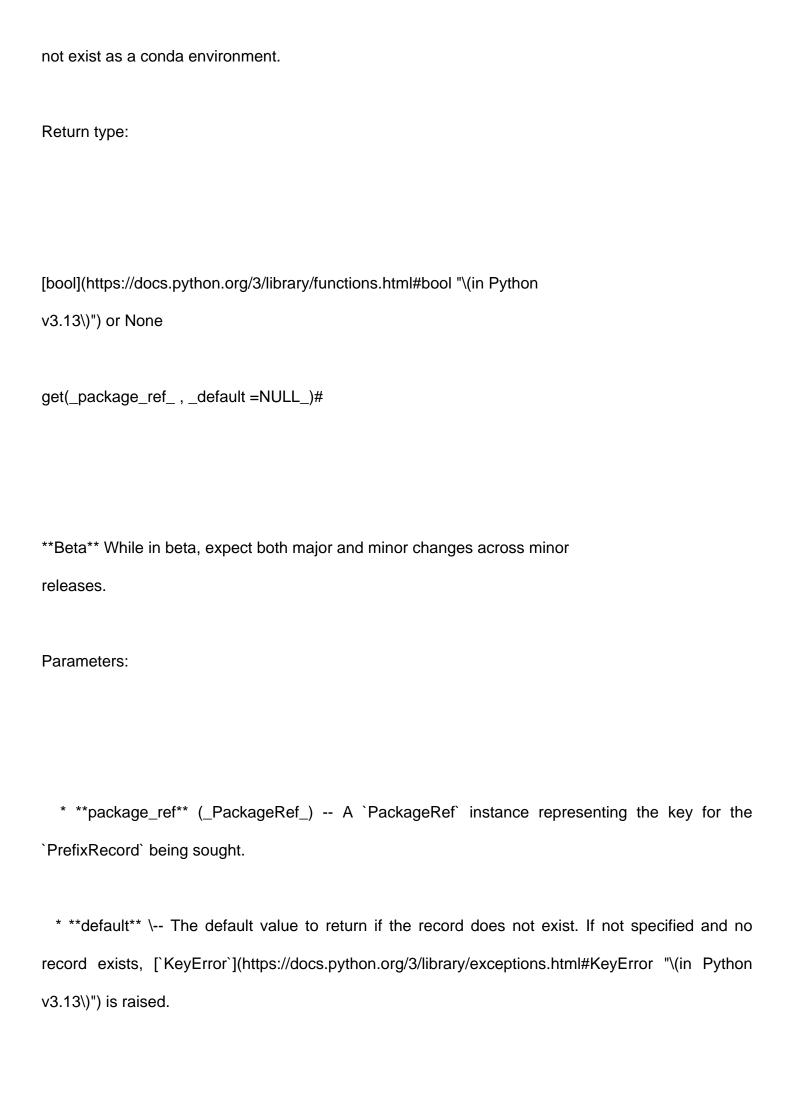
tuple[PackageCacheRecord]
ter_records()#
**Beta** While in beta, expect both major and minor changes across minor
releases.
Returns:
A generator over all records contained in the package
cache instance. Warning: this is a generator that is exhausted on first use.
Return type:
terable[[PackageCacheRecord](/models/records/index.html#conda.models.records.PackageCach
eRecord 'conda.models.records.PackageCacheRecord")]

_static _first_writable(_pkgs_dirs =None_)#
**Beta** While in beta, expect both major and minor changes across minor
releases.
Get an instance object for the first writable package cache.
Parameters:
**pkgs_dirs** (_Iterable_
_[_[_str_](https://docs.python.org/3/library/stdtypes.html#str "\(in Python
v3.13\)") _]_) If None, will fall back to context.pkgs_dirs.
Returns:
An instance for the first writable package cache.
Return type:



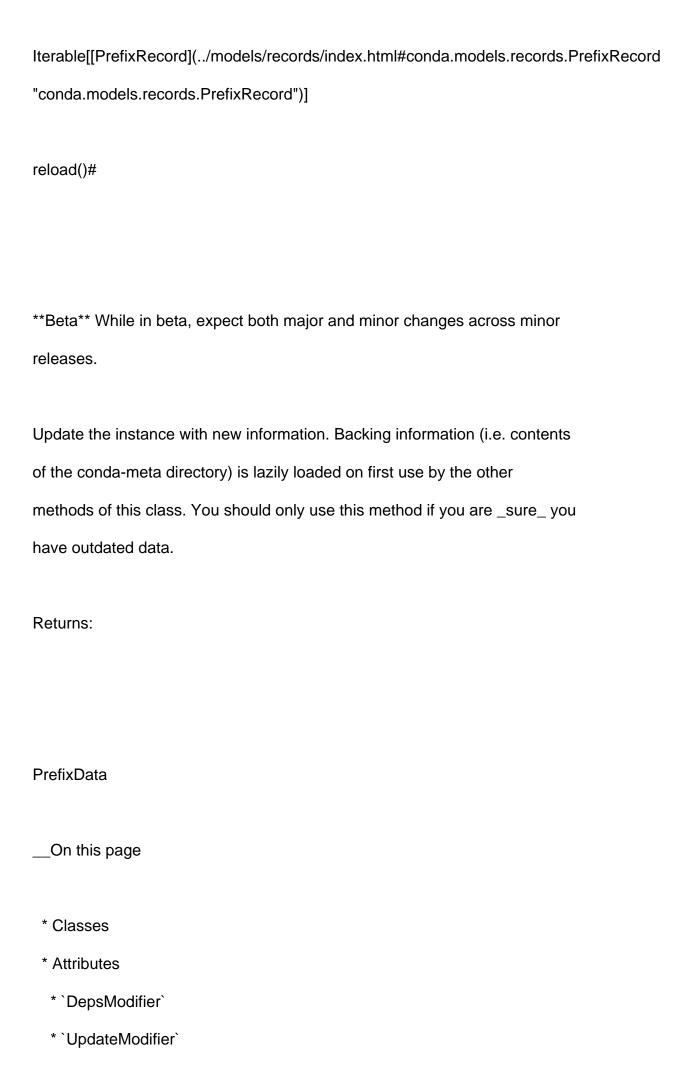
High-level management and usage of conda environment prefixes.
**Beta** While in beta, expect both major and minor changes across minor
releases.
Parameters:
**prefix_path** ([_str_](https://docs.python.org/3/library/stdtypes.html#str "\(in Python v3.13\)"))
_property _is_writable#
**Beta** While in beta, expect both major and minor changes across minor releases.
Indicates if the prefix is writable or read-only.
Returns:

True if the prefix is writable. False if read-only. None if the prefix does





Returns:
tuplo[DrofivDoord]
tuple[PrefixRecord]
iter_records()#
**Beta** While in beta, expect both major and minor changes across minor
releases.
Returns:
A generator over all records contained in the prefix.
Warning: this is a generator that is exhausted on first use.
Return type:



	* `Solver`
	* `Solver.solve_final_state()`
	* `Solver.solve_for_diff()`
	* `Solver.solve_for_transaction()`
	* `SubdirData`
	* `SubdirData.query()`
	* `SubdirData.query_all()`
	* `SubdirData.iter_records()`
	* `SubdirData.reload()`
	* `PackageCacheData`
	* `PackageCacheData.is_writable`
	* `PackageCacheData.get()`
	* `PackageCacheData.query()`
	* `PackageCacheData.query_all()`
	* `PackageCacheData.iter_records()`
	* `PackageCacheData.first_writable()`
	* `PackageCacheData.reload()`
	* `PrefixData`
	* `PrefixData.is_writable`
	* `PrefixData.get()`
	* `PrefixData.query()`
	* `PrefixData.iter_records()`
	* `PrefixData.reload()`
[_	Edit on GitHub](https://github.com/conda/conda/edit/main/docs/source/dev-
gı	uide/api/conda/api/index.rst)

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Built with the [PyData Sphinx Theme](https://pydata-sphinx-
theme.readthedocs.io/en/stable/index.html) 0.15.4.