

Conda And Bioconda Cheat Sheet

Channels and their order

<code>conda config --add channels foo</code>	Make "foo" the top priority channel
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<code>conda config --show channels</code>	List channels and their order
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<code>conda config --remove channels foo</code>	Remove "foo" from the channels
---	--------------------------------

```
$ conda config --show channels
channels:
  - conda-forge
  - bioconda
  - defaults
```

This is the proper order!



Conda basics

You can always use ``-c`` to add additional channels!

<code>conda search "foo"</code>	Search for "foo" in your channels
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<code>conda install foo</code>	Install "foo" from your channels
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<code>conda remove</code>	Remove "foo" from your current environment
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<code>conda update foo</code>	Update the version of foo
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<code>conda info</code>	Print the conda version
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Conda environments

Avoid installing packages in your base environment!

<code>conda env list</code>	List environments
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<code>conda create -n foo package1\package2</code>	Create a new environment named "foo" with the given packages
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<code>conda env remove -n foo</code>	Remove the "foo" environment
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<code>conda activate foo</code>	Activate the "foo" environment
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<code>conda deactivate</code>	Deactivate the current environment
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<code>conda env export > foo.yaml</code>	Export the environment to a YAML file
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<code>conda env create -f foo.yaml \-n bar</code>	Create an environment named "bar" from a YAML file
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Recipe skeletons

For CRAN packages, use:

https://github.com/bgruening/conda_r_skeleton_helper

`conda skeleton pypi foo` For the "foo" package on PyPI

`conda skeleton cpan foo` For the "foo" package on CPAN.

`bioconda-utils \`
`bioconductor skeleton` For Bioconductor packages. This is handled by Bioconda/core!

Anatomy of meta.yaml

```
{% set name = "foo" %}  
{% set version = "1.2.3" %}
```

← Jinja2 can be used to decrease duplication

```
package:  
  name: {{ name }}  
  version: {{ version }}
```

```
source:  
  url: https://lab.com/{{name}}-{{version}}.tgz  
  sha256: a9a6d2aff919f45e869acfb4
```

```
build:  
  number: 0  
  skip: True # [osx]
```

New versions should reset the build number to 0.

```
requirements:  
  build:  
    - {{ compiler('c') }}  
  host:  
    - zlib  
  run:  
    - zlib
```

← Compilers belong under "build", libraries under "host" and ALL run-time dependencies under "run".

```
test:  
  commands:  
    - foo --version
```

```
about:  
  home: https://github.com/...  
  license: MIT  
  license_file: LICENSE  
  summary: My useful short description
```