

A non-exhaustive list of Python modules and packages in each conda environment is shown below. The preferred channel is "intel" where possible, followed by "bioconda". Users will want to ensure that their required modules appear within the same environment for convenience, unless this is made impossible by Python version or other incompatibility.

Output produced on 29 May 2020.

```
= = = = = idppy3 = = = = =
cython          0.28.2      py36_intel_4  [intel]  intel
intelpython    2018.0.3      0           intel
ipython         6.3.1       py36_intel_1  [intel]  intel
jupyter        1.0.0       py36_intel_5  [intel]  intel
matplotlib     2.2.2       np114py36_intel_1 [intel]  intel
numpy          1.14.3      py36_intel_0  [intel]  intel
pandas         0.22.0      np114py36_intel_4 [intel]  intel
python          3.6.3       intel_12     [intel]  intel
scikit-learn   0.19.1      np114py36_intel_29 [intel]
intel
scipy          1.0.1       np114py36_intel_3  [intel]  intel
tensorflow     1.3.1       np114py36_5    intel
theano          1.1         py36_intel_4  [intel]  intel
xgboost         0.7         py36_0       intel
= = = = = idppy2 = = = = =
cython          0.28.2      py27_intel_4  [intel]  intel
intelpython    2018.0.3      0           intel
ipython         5.6.0       py27_intel_0  [intel]  intel
jupyter        1.0.0       py27_intel_5  [intel]  intel
matplotlib     2.2.2       np114py27_intel_1 [intel]  intel
numpy          1.14.3      py27_intel_0  [intel]  intel
pandas         0.22.0      np114py27_intel_4 [intel]  intel
python          2.7.14      intel_6      [intel]  intel
scikit-learn   0.19.1      np114py27_intel_29 [intel]
intel
scipy          1.0.1       np114py27_intel_3  [intel]  intel
tensorflow     1.3.1       np114py27_5    intel
theano          1.1         py27_intel_4  [intel]  intel
xgboost         0.7         py27_0       intel
= = = = = ipy3nopypyrev1 = = = = =
_pytorch_select 0.2         gpu_0
biopython       1.76        py36h516909a_0  conda-forge
cython          0.28.2      py36_intel_4  [intel]  intel
intelpython    2018.0.3      0           intel
matplotlib     2.2.2       np114py36_intel_1 [intel]  intel
numpy          1.14.3      py36_intel_0  [intel]  intel
pandas         0.22.0      np114py36_intel_4 [intel]  intel
pybigwig       0.3.12      py36hdfb72b2_0  bioconda
python          3.6.3       intel_12     [intel]  intel
pytorch         1.3.1       cuda100py36h53c1284_0
pyvcf          0.6.8       py36h9f0ad1d_1001  conda-forge
razers3        3.5.3       h21aa3a5_2    bioconda
samtools        1.9         h46bd0b3_0    bioconda
scikit-learn   0.19.1      np114py36_intel_29 [intel]
intel
scipy          1.0.1       np114py36_intel_3  [intel]  intel
seaborn         0.10.0      py_0         conda-forge
sequenza-utils 3.0.0       py36h831f99a_1  bioconda
snpeff          4.5covid19      1           bioconda
snpsift         4.3.1t      2           bioconda
statsmodels    0.9.0       py36h3010b51_1000  conda-forge
texlive-core    20180414      hc8d0b01_0
```

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= = = = = ipy3pypirev1 = = = = =
_pytorch_select          0.2           gpu_0
biopython                 1.76          py36h516909a_0    conda-forge
cython                    0.28.2        py36_intel_4   [intel]  intel
intelpython               2018.0.3
labkey                   1.2.0           pypi_0
matplotlib                3.2.1           pypi_0
numpy                     1.18.4           pypi_0
opencv-python              4.2.0.34        pypi_0
pandas                    1.0.3           pypi_0
pybigwig                  0.3.12          py36hdfb72b2_0 bioconda
python                    3.6.3           intel_12  [intel]  intel
pytorch                   1.3.1          cuda100py36h53c1284_0
pyvcf                     0.6.8           py36h9f0ad1d_1001 conda-forge
razers3                  3.5.3           h21aa3a5_2  bioconda
samtools                  1.9            h46bd0b3_0  bioconda
scikit-learn               0.23.0
scipy                     1.4.1           pypi_0
seaborn                   0.10.0
sequenza-utils             3.0.0          py36h831f99a_1 bioconda
sigprofilerextractor      1.0.9           pypi_0
sigprofilermatrixgenerator 1.1.15
sigprofilerplotting       1.1.6           pypi_0
sigprofilersimulator      1.0.3           pypi_0
snpeff                    4.5covid19
snpsift                   4.3.1t
statsmodels                0.11.1
svtk                      0.1.0           pypi_0
texlive-core                20180414
torch                     1.5.0           pypi_0
= = = = = ipy3nopypi = = = = =
_pytorch_select          0.2           gpu_0
biopython                 1.76          py36h516909a_0    conda-forge
cython                    0.28.2        py36_intel_4   [intel]  intel
intelpython               2018.0.3
matplotlib                2.2.2           np114py36_intel_1 [intel]  intel
numpy                     1.14.3          py36_intel_0  [intel]  intel
pandas                    0.22.0          np114py36_intel_4 [intel]  intel
pybigwig                  0.3.12          py36hdfb72b2_0 bioconda
python                    3.6.3           intel_12  [intel]  intel
pytorch                   1.3.1          cuda100py36h53c1284_0
pyvcf                     0.6.8           py36h9f0ad1d_1001 conda-forge
razers3                  3.5.3           h21aa3a5_2  bioconda
samtools                  1.9            h46bd0b3_0  bioconda
scikit-learn               0.19.1          np114py36_intel_29 [intel]
intel
scipy                     1.0.1           np114py36_intel_3 [intel]  intel
seaborn                   0.10.0           py_0
sequenza-utils             3.0.0          py36hf484d3e_0  bioconda
statsmodels                0.9.0          py36h3010b51_1000 conda-forge
= = = = = ipy3pypi = = = = =
_pytorch_select          0.2           gpu_0
biopython                 1.76          py36h516909a_0    conda-forge
cython                    0.28.2        py36_intel_4   [intel]  intel
intelpython               2018.0.3
labkey                   1.2.0           pypi_0
matplotlib                3.2.1           pypi_0
numpy                     1.18.3           pypi_0
opencv-python              4.2.0.34        pypi_0
pandas                    1.0.3           pypi_0
pybigwig                  0.3.12          py36hdfb72b2_0 bioconda
```

python	3.6.3	intel_12 [intel] intel
pytorch	1.3.1	cuda100py36h53c1284_0
pyvcf	0.6.8	py36h9f0ad1d_1001 conda-forge
razers3	3.5.3	h21aa3a5_2 bioconda
samtools	1.9	h46bd0b3_0 bioconda
scikit-learn	0.22.2.post1	pypi_0 pypi
scipy	1.4.1	pypi_0 pypi
seaborn	0.10.0	py_0 conda-forge
sequenza-utils	3.0.0	py36hf484d3e_0 bioconda
sigprofilerextractor	1.0.9	pypi_0 pypi
sigprofilermatrixgenerator	1.1.14	pypi_0 pypi
sigprofilerplotting	1.1.6	pypi_0 pypi
sigprofilersimulator	1.0.1	pypi_0 pypi
statsmodels	0.11.1	pypi_0 pypi
svtk	0.1.0	pypi_0 pypi
torch	1.5.0	pypi_0 pypi
= = = = ipy3tf2 = = = =		
intelpython	2020.1	0 intel
keras-applications	1.0.8	py_1 conda-forge
keras-preprocessing	1.1.0	py_0 conda-forge
numpy	1.17.5	py37ha68da19_1 intel
numpy-base	1.17.5	py37_1 intel
python	3.7.7	hf484d3e_0 intel
scipy	1.4.1	py37ha3d9a3c_3 conda-forge
tensorflow	2.1.0	py37_0 intel
tensorflow-base	2.1.0	0 intel
tensorflow-estimator	2.1.0	pyhd54b08b_0
= = = = ipy3keras = = = =		
intelpython	2020.1	0 intel
keras	2.3.1	py37_0 conda-forge
keras-applications	1.0.8	py_1 conda-forge
keras-preprocessing	1.1.0	py_0 conda-forge
numpy	1.17.5	py37ha68da19_1 intel
numpy-base	1.17.5	py37_1 intel
python	3.7.7	hf484d3e_0 intel
scipy	1.3.3	py37ha68da19_2 intel
tensorflow	2.0.1	py37_0 intel
tensorflow-estimator	1.14.0	py37h5ca1d4c_0 conda-forge
theano	1.0.4	py37he1b5a44_1001 conda-forge
= = = = ipy3mavis = = = =		
biopython	1.76	py37h516909a_0 conda-forge
intelpython	2020.1	0 intel
mavis	2.2.6	py_0 bioconda
numpy	1.17.5	py37ha68da19_1 intel
numpy-base	1.17.5	py37_1 intel
pysam	0.15.4	py37hbcae180_0 bioconda
python	3.7.7	hf484d3e_0 intel
pyvcf	0.6.8	py37hc8dfbb8_1001 conda-forge
= = = = py3nopyppirev1 = = = =		
_pytorch_select	0.2	gpu_0
biopython	1.76	py37h516909a_0 conda-forge
cython	0.29.19	py37h3340039_0 conda-forge
keras	2.3.1	py37_0 conda-forge
keras-applications	1.0.8	py_1 conda-forge
keras-preprocessing	1.1.0	py_0 conda-forge
matplotlib	3.2.1	0 conda-forge
matplotlib-base	3.2.1	py37h30547a4_0 conda-forge
numpy	1.18.4	py37h8960a57_0 conda-forge
pandas	1.0.3	py37h0da4684_1 conda-forge
pybigwig	0.3.17	py37hfb91e9a_1 bioconda
pysam	0.15.3	py37hbcae180_3 bioconda

python	3.7.6	h8356626_5_cpython	conda-forge
pytorch	1.4.0	cuda101py37h02f0884_0	
pyvcf	0.6.8	py37hc8dfbb8_1001	conda-forge
razers3	3.5.3	hb7ba0dd_3	bioconda
samtools	1.10	h9402c20_2	bioconda
scikit-learn	0.23.1	py37h8a51577_0	conda-forge
scipy	1.4.1	py37ha3d9a3c_3	conda-forge
seaborn	0.10.1	py_0	conda-forge
sequenza-utils	3.0.0	py37h3340039_1	bioconda
spliceai	1.3.1	py_0	bioconda
statsmodels	0.11.1	py37h8f50634_1	conda-forge
tensorflow	1.13.1	py37h90a7d86_1	conda-forge
tensorflow-estimator	1.13.0	py_0	
theano	1.0.3	py37hfc679d8_1	conda-forge
= = = = py3nopypi = = = =			
_pytorch_select	0.2	gpu_0	
biopython	1.76	py37h516909a_0	conda-forge
cython	0.29.17	py37h3340039_0	conda-forge
matplotlib	3.2.1	0	conda-forge
matplotlib-base	3.2.1	py37h30547a4_0	conda-forge
numpy	1.18.4	py37h8960a57_0	conda-forge
pandas	1.0.3	py37h0da4684_1	conda-forge
pybigwig	0.3.17	py37hfb91e9a_1	bioconda
python	3.7.6	h8356626_5_cpython	conda-forge
pytorch	1.4.0	cuda101py37h02f0884_0	
pyvcf	0.6.8	py37hc8dfbb8_1001	conda-forge
razers3	3.5.3	hb7ba0dd_3	bioconda
samtools	1.10	h9402c20_2	bioconda
scikit-learn	0.22.2.post1	py37hcdab131_0	conda-forge
scipy	1.4.1	py37ha3d9a3c_3	conda-forge
seaborn	0.10.1	py_0	conda-forge
sequenza-utils	3.0.0	py37h3340039_1	bioconda
statsmodels	0.11.1	py37h8f50634_1	conda-forge
= = = = py3pypi = = = =			
_pytorch_select	0.2	gpu_0	
biopython	1.76	py37h516909a_0	conda-forge
cython	0.29.17	py37h3340039_0	conda-forge
labkey	1.2.0	pypi_0	pypi
matplotlib	3.2.1	0	conda-forge
matplotlib-base	3.2.1	py37h30547a4_0	conda-forge
numpy	1.18.4	py37h8960a57_0	conda-forge
opencv-python	4.2.0.34	pypi_0	pypi
pandas	1.0.3	py37h0da4684_1	conda-forge
pybigwig	0.3.17	py37hfb91e9a_1	bioconda
python	3.7.6	h8356626_5_cpython	conda-forge
pytorch	1.4.0	cuda101py37h02f0884_0	
pyvcf	0.6.8	py37hc8dfbb8_1001	conda-forge
razers3	3.5.3	hb7ba0dd_3	bioconda
samtools	1.10	h9402c20_2	bioconda
scikit-learn	0.22.2.post1	py37hcdab131_0	conda-forge
scipy	1.4.1	py37ha3d9a3c_3	conda-forge
seaborn	0.10.1	py_0	conda-forge
sequenza-utils	3.0.0	py37h3340039_1	bioconda
sigprofilerextractor	1.0.9	pypi_0	pypi
sigprofilermatrixgenerator	1.1.15	pypi_0	pypi
sigprofilerplotting	1.1.6	pypi_0	pypi
sigprofilersimulator	1.0.3	pypi_0	pypi
statsmodels	0.11.1	py37h8f50634_1	conda-forge
svtk	0.1.0	pypi_0	pypi
= = = = py2_7_12nopypi = = = =			
numpy	1.11.3	py27he5ce36f_1207	conda-forge

pandas	0.19.2	np111py27_1	conda-forge
pysam	0.15.4	py27hbcae180_0	bioconda
python	2.7.12	2	conda-forge
pyvcf	0.6.8	py27h8c360ce_1001	conda-forge
razers3	3.5.3	hb7ba0dd_3	bioconda
scipy	1.2.1	py27h09a28d5_1	conda-forge
statsmodels	0.9.0	py27h3010b51_1000	conda-forge
survivor	1.0.7	he513fc3_0	bioconda
svtools	0.5.1	py_0	bioconda
svtyper	0.7.1	py_0	bioconda
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labkey	1.2.0	pypi_0	pypi
numpy	1.11.3	py27he5ce36f_1207	conda-forge
pandas	0.19.2	np111py27_1	conda-forge
pysam	0.15.4	py27hbcae180_0	bioconda
python	2.7.12	2	conda-forge
pyvcf	0.6.8	py27h8c360ce_1001	conda-forge
razers3	3.5.3	hb7ba0dd_3	bioconda
scipy	1.2.1	py27h09a28d5_1	conda-forge
statsmodels	0.9.0	py27h3010b51_1000	conda-forge
survivor	1.0.7	he513fc3_0	bioconda
svtools	0.5.1	py_0	bioconda
svtyper	0.7.1	py_0	bioconda
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===== idpcorepy3_6_5rev1 =====			
bedtools	2.26.0	0	bioconda
biopython	1.76	py36h516909a_0	conda-forge
ensembl-vep	89.4	httplib1.5_0	bioconda
intelpython	2019.1	0	intel
matplotlib	2.2.3	py36_0	intel
mavis	2.2.6	py_0	bioconda
numpy	1.15.4	py36_2	intel
numpy-base	1.15.4	py36_2	intel
pandas	0.23.4	py36_4	intel
picard	2.15.0	py36_0	bioconda
pysam	0.15.4	py36hbcae180_0	bioconda
python	3.6.5	11	intel
pyvcf	0.6.8	py36h9f0ad1d_1001	conda-forge
samblaster	0.1.24	hc9558a2_3	bioconda
samtools	1.8	h46bd0b3_5	bioconda
scipy	1.1.0	np115py36_6	intel
snakemake	5.1.4	py36_0	bioconda
vcftools	0.1.15	he941832_2	bioconda
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===== idpcorepy2_7_12rev1 =====			
intelpython	2020.1	0	intel
numpy	1.11.3	py27he5ce36f_1207	conda-forge
numpy-base	1.16.4	py27_25	intel
pandas	0.19.2	np111py27_1	conda-forge
pysam	0.15.4	py27hbcae180_0	bioconda
python	2.7.12	2	conda-forge
razers3	3.5.3	hb7ba0dd_3	bioconda
scipy	1.2.1	py27h09a28d5_1	conda-forge
statsmodels	0.9.0	py27h3010b51_1000	conda-forge
survivor	1.0.7	he513fc3_0	bioconda
svtools	0.5.1	py_0	bioconda
svtyper	0.7.1	py_0	bioconda
<hr/>			
===== idpcorepy3tf2rev1 =====			
_pytorch_select	0.2	gpu_0	
biopython	1.76	py37h516909a_0	conda-forge
gitpython	3.1.1	py_0	conda-forge
intelpython	2020.1	0	intel
ipython	5.8.0	py37_1	conda-forge

jupyter	1.0.0	py_2	conda-forge
keras	2.3.1	py37_0	conda-forge
keras-applications	1.0.8	py_1	conda-forge
keras-preprocessing	1.1.0	py_0	conda-forge
matplotlib	3.1.2	py37_3	intel
matplotlib-base	3.1.1	py37hfd891ef_0	conda-forge
numpy	1.17.5	py37ha68da19_1	intel
numpy-base	1.17.5	py37_1	intel
opencv-python	4.2.0.34	pypi_0	pypi
pandas	0.25.3	py37_4	intel
pybigwig	0.3.17	py37hc013797_0	bioconda
python	3.7.7	hf484d3e_0	intel
pytorch	1.4.0	cuda101py37h02f0884_0	conda-forge
pyvcf	0.6.8	py37hc8dfbb8_1001	conda-forge
razers3	3.5.3	hb7ba0dd_3	bioconda
samtools	1.10	h9402c20_2	bioconda
scikit-learn	0.22.1	py37ha68da19_9	intel
scipy	1.3.3	py37ha68da19_2	intel
seaborn	0.10.0	py_1	conda-forge
sequenza-utils	3.0.0	py37hf484d3e_0	bioconda
sigprofilerextractor	1.0.8	pypi_0	pypi
sigprofilermatrixgenerator	1.1.14	pypi_0	pypi
sigprofilerplotting	1.1.5	pypi_0	pypi
sigprofilersimulator	1.0.1	pypi_0	pypi
snakemake	5.5.4	1	bioconda
snakemake-minimal	5.5.4	py_2	bioconda
statsmodels	0.11.1	py37h8f50634_1	conda-forge
svtk	0.1.0	pypi_0	pypi
tensorflow	2.0.1	py37_0	intel
tensorflow-estimator	1.14.0	py37h5ca1d4c_0	conda-forge
theano	1.0.4	py37he1b5a44_1001	conda-
forgea44_1001	conda-forge		