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* https://github.com/tensorflow/addons
* https://github.com/tensorflow/io (for I/O related ops)
If you depend on functionality not listed there, please file an issue.

W0808 15:52:12.393358 140278194833280 deprecation.py:323] From /usr/local/lib/python3.6/dist-packages/bpnet/losses.py:27: Multinomial.__init__ (from
Instructions for updating:
The TensorFlow Distributions library has moved to TensorFlow Probability (https://github.com/tensorflow/probability). You should update all reference
W0808 15:52:12.407156 140278194833280 deprecation.py:323] From /usr/local/lib/python3.6/dist-packages/tensorflow/python/ops/distributions/multinomial
Instructions for updating:
The TensorFlow Distributions library has moved to TensorFlow Probability (https://github.com/tensorflow/probability). You should update all reference
W0808 15:52:12.415278 140278194833280 deprecation.py:323] From /usr/local/lib/python3.6/dist-packages/bpnet/losses.py:30: to_float (from tensorflow.p
Instructions for updating:
Use `tf.cast` instead.

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from bpnet.plot.tracks import filter_tracks, plot_tracks
from concise.preprocessing import encodeDNA
from collections import OrderedDict

# Core of the Oct4 enhancer sequence
seq = 'N'*23 + 'GGAGGAAGTGGGTGTGGGGAGGTTGTAGCCCGACCCCTGCCCTCCCCCAGGGAGGTTGAGAGTCTGGGCAGACGGCAGATGCATAACAAAGGTGCATGATAGCTCTGCCCTGGGGCAGAGAAGATGGTT'
seq_onehot = encodeDNA([seq]) # one-hot encode

# Compute contribution scores
contrib_scores = sm.contrib_score_all(seq_onehot, preact_only=True)
contrib_scores = [(f'Contrib {k}', seq_onehot[0] * v[0])
                  for k,v in contrib_scores.items()
                  if k.endswith("profile/wn")] # keep only */profile/wn scores

# Make predictions
preds = sm.predict(seq_onehot)
preds = [(f'Pred {task}', to_neg(preds[f'{task}/profile'][0]) * np.exp(preds[f'{task}/counts'][0]))
         for task in sm.tasks] # merge predictions

viz_dict = OrderedDict(preds + contrib_scores)

xlim = [50, 180] # Focus only on the central
viz_dict = filter_tracks(viz_dict, xlim)

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W0808 15:52:15.330336 140278194833280 deprecation.py:506] From /usr/local/lib/python3.6/dist-packages/bpnet/heads.py:318: calling softmax (from tenso
Instructions for updating:
dim is deprecated, use axis instead

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