Wyrm v0 Structure

Branching Protocol

1. Branch current repository to experimental
2. Remove trash from develop branch
3. Refactor repository in `develop` to the scheme below.

Directory/Code Structure

* Readme.md
* License.md
* Environment
  + wyrm.yaml
  + wyrm\_silicon.yaml
* example\_data
  + Port\_Townsend\_M4.3
    - bulk.mseed
    - station.xml
* wyrm
  + core
    - wyrm.py
      * class Wyrm(object)
    - mltrace.py
      * class MLTraceStats(obspy.core.trace.Stats)
      * class MLTrace(obspy.Trace)
    - mlstream.py
      * class MLStreamStats(obspy.AttribDict)
      * class MLStream(obspy.Stream)
  + streaming
    - mltracebuffer.py
      * class MLTraceBuffer(MLTrace)
    - windowstream.py
      * class WindowStreamStats(MLStreamStats)
      * class WindowStream(MLStream)
    - buffering.py
      * class BufferWyrm
  + processing
    - window.py
      * class WindowWyrm(Wyrm)
    - mlpick.py
      * class PredictWyrm(Wyrm)
      * class PickWyrm(Wyrm)
    - inplace.py
      * class MethodWyrm
      * class OutputWyrm(MethodWyrm)
  + coordinating
    - sequence.py
      * class TubeWyrm
      * class CanWyrm
    - module\_operation.py
      * class HeartWyrm
  + io
    - ew\_ring.py
      * RingWyrm
      * EarWyrm
    - client.py
    - disk.py
  + module\_examples
    - ring2ring
      * prediction\_example.py
      * prediction\_ensemble\_example.py
    - disk2disk
      * prediction\_example.py
      * prediction\_ensemble\_example.py
  + util
    - logging.py
    - pyew.py
    - time.py
    - input.py
    - seisbench.py
    - features.py

Documentation Notes

<https://docs.python-guide.org/writing/documentation/#:~:text=Project%20Documentation&text=It%20should%20contain%20a%20few,for%20readers%20of%20the%20code>.

Project publication

Structure:

Introduction

Tutorial

API reference

Developer Documentation

Tools: Sphinx

Hosting: ReadTheDocs

Style: PEP8 - <https://peps.python.org/pep-0008/#comments>

Other handy tidbits

Doctest – use of >>> in comment blocks to make testable code

Getting Started with Sphinx

<https://www.sphinx-doc.org/en/master/>

Installation/Path Setting Notes

<https://dev.to/codemouse92/dead-simple-python-project-structure-and-imports-38c6>

Packaging a Python Package for PIP

https://packaging.python.org/en/latest/tutorials/packaging-projects/