











Demonstrations

- See repository *siptools-workshop-2019* form: <https://github.com/Digital-Preservation-Finland>
 - This includes five different tutorial exercises for our Pre-Ingest Tool
 - Originally used in a national pre-ingest tool workshop on April 2019

Additionally: Metadata Libraries for Python

- We have implemented various general metadata libraries for Python
 - METS, PREMIS, AudioMD, VideoMD, ADDML...
 - Do not fully cover all the properties of the metadata formats, development ongoing...
 - <https://github.com/Digital-Preservation-Finland>

• Example: METS Library usage with Python

```
> import mets
> import premis
> object = premis.object(premis.identifier(
>     'my-id-type', 'my-id-value'), 'file.txt')
> xmldata = mets.xmldata(child_elements=[object])
> mdwrap = mets.mdwrap('PREMIS:OBJECT', '2.2', child_elements=[xmldata])
> techmd = mets.techmd('my-id', child_elements=[mdwrap])
> amdsec = mets.amdsec([techmd])
> root = mets.mets(child_elements=[amdsec])
```

Metadata Libraries for Python

```
> lxml.etree.dump(root)
<mets:mets xmlns:mets="http://www.loc.gov/METS/" xmlns:xsi="http://www.w3.org/2001/XMLSchema-
instance" xmlns:xlink="http://www.w3.org/1999/xlink" xsi:schemaLocation="http://www.loc.gov/METS/
http://www.loc.gov/standards/mets/mets.xsd" PROFILE="local" OBJID="899c7e80-40f4-464a-9c7f-
9f6f91e0fac7">
  <mets:amdSec>
    <mets:techMD ID="my-id" CREATED="2019-07-15T07:30:26.859016">
      <mets:mdWrap MDTYPE="PREMIS:OBJECT" MDTYPEVERSION="2.2">
        <mets:xmldata>
          <premis:object xmlns:premis="info:lc/xmlns/premis-v2" xsi:type="premis:file">
            <premis:objectIdentifier>
              <premis:objectIdentifierType>my-id-type</premis:objectIdentifierType>
              <premis:objectIdentifierValue>my-id-value</premis:objectIdentifierValue>
            </premis:objectIdentifier>
            <premis:originalName>file.txt</premis:originalName>
          </premis:object>
        </mets:xmldata>
      </mets:mdWrap>
    </mets:techMD>
  </mets:amdSec>
</mets:mets>
```



<http://www.loc.gov/standards/mets/>
<http://digitalpreservation.fi/>
 Twitter @dpres_fi
<https://github.com/Digital-Preservation-Finland/>