

# Untitled1

August 14, 2019

jupyter notebook, Python 3

```
[8]: !git clone https://github.com/thehyve/tmtk.git
```

```
fatal: destination path 'tmtk' already exists and is not an empty directory.  
Note: checking out 'tags/0.5.6'.
```

```
You are in 'detached HEAD' state. You can look around, make experimental  
changes and commit them, and you can discard any commits you make in this  
state without impacting any branches by performing another checkout.
```

```
If you want to create a new branch to retain commits you create, you may  
do so (now or later) by using -b with the checkout command again. Example:
```

```
git checkout -b <new-branch-name>
```

```
HEAD is now at 5958501 Merge pull request #80 from thehyve/develop
```

```
[2]: !unzip Breast_Cancer_Desmedt_GSE7390.zip
```

```
Archive:  Breast_Cancer_Desmedt_GSE7390.zip  
  creating: Breast_Cancer_Desmedt_GSE7390/  
 extracting: Breast_Cancer_Desmedt_GSE7390/backout.params  
  creating: Breast_Cancer_Desmedt_GSE7390/clinical/  
 inflating: Breast_Cancer_Desmedt_GSE7390/clinical/Breast  
Cancer_Desmedt_GSE7390.txt  
 inflating: Breast_Cancer_Desmedt_GSE7390/clinical/Breast  
Cancer_Desmedt_GSE7390_Mapping_File.txt  
 inflating: Breast_Cancer_Desmedt_GSE7390/clinical/clinical.params  
  creating: Breast_Cancer_Desmedt_GSE7390/expression/  
 inflating: Breast_Cancer_Desmedt_GSE7390/expression/Breast_Cancer_Desmedt_GSE7  
390_Gene_Expression_Data_R.txt  
 inflating: Breast_Cancer_Desmedt_GSE7390/expression/Breast_Cancer_Desmedt_GSE7  
390_Subject_Sample_Mapping_File.txt  
 inflating: Breast_Cancer_Desmedt_GSE7390/expression/mrna.params  
  creating: Breast_Cancer_Desmedt_GSE7390/expression/mrna_annotation/  
 inflating: Breast_Cancer_Desmedt_GSE7390/expression/mrna_annotation/GPL96.txt
```

```
inflating:
Breast_Cancer_Desmedt_GSE7390/expression/mrna_annotation/GPL96_org.txt
inflating:
Breast_Cancer_Desmedt_GSE7390/expression/mrna_annotation/GPL96_uni.txt
inflating:
Breast_Cancer_Desmedt_GSE7390/expression/mrna_annotation/mrna_annotation.params
extracting: Breast_Cancer_Desmedt_GSE7390/study.params
```

```
[14]: %cd /home/jovyan
      %cd tmtk/
```

```
/home/jovyan
/home/jovyan/tmtk
```

tried default branch as well (develop)

```
[15]: !git pull
      !git checkout tags/0.5.6
```

You are not currently on a branch.  
Please specify which branch you want to merge with.  
See git-pull(1) for details.

```
git pull <remote> <branch>
```

HEAD is now at 5958501 Merge pull request #80 from thehyve/develop

```
[16]: import tmtk
```

sample code from toolbox/skinny\_loader/export\_to\_skinny.py same error for both studies

```
[25]: #study = tmtk.Study('../Breast_Cancer_Desmedt_GSE7390/study.params')
      study = tmtk.Study('./studies/valid_study/study.params')
      export = tmtk.toolbox.SkinnyExport(study, '/tmp/transmart-copy-ready/')
      export.to_disk()
```

```
↳
-----
AttributeError                                Traceback (most recent call↳
↳last)

<ipython-input-25-64915be8d2ce> in <module>
      1 #study = tmtk.Study('../Breast_Cancer_Desmedt_GSE7390/study.params')
----> 2 study = tmtk.Study('./studies/valid_study/study.params')
      3 export = tmtk.toolbox.SkinnyExport(study, '/tmp/transmart-copy-ready/
↳')
```

```

4 export.to_disk()

~/local/lib/python3.6/site-packages/tmtk/study.py in __init__(self,
↳study_params_path, minimal)
    62         clinical_params = self.
↳find_params_for_datatype(datatypes='clinical')
    63         if clinical_params:
---> 64             self.Clinical.params = clinical_params[0]
    65         else:
    66             self.create_clinical()

~/local/lib/python3.6/site-packages/tmtk/clinical/Clinical.py in
↳params(self, value)
    46     def params(self, value):
    47         self._params = value
---> 48         self.ColumnMapping = ColumnMapping(params=self.params)
    49         self.WordMapping = WordMapping(params=self.params)
    50

~/local/lib/python3.6/site-packages/tmtk/clinical/ColumnMapping.py in
↳__init__(self, params)
    46         super().__init__()
    47
---> 48         self._initial_paths = self.path_id_dict
    49
    50         @property

~/local/lib/python3.6/site-packages/tmtk/clinical/ColumnMapping.py in
↳path_id_dict(self)
    206     def path_id_dict(self):
    207         """Dictionary with all variable ids as keys and paths as
↳value."""
--> 208         return {v: self.get_concept_path(v) for v in self.ids}
    209
    210     def path_changes(self, silent=False):

~/local/lib/python3.6/site-packages/tmtk/clinical/ColumnMapping.py in
↳ids(self)
    56     def ids(self):
    57         """A list of variable identifier tuples."""
---> 58         self.build_index()
    59         return list(self.df.index)

```

60

```
~/local/lib/python3.6/site-packages/tmtk/clinical/ColumnMapping.py in
↳ build_index(self, df)
    167         """
    168         if not isinstance(df, pd.DataFrame):
--> 169             df = self.df
    170         df.set_index(list(df.columns[[0, 2]]), drop=False,
↳ inplace=True)
    171         df.sort_index(inplace=True)
```

```
~/local/lib/python3.6/site-packages/tmtk/utils/filebase.py in df(self)
    30     def df(self):
    31         """The pd.DataFrame for this file object."""
---> 32         return self._df
    33
    34     @df.setter
```

```
~/local/lib/python3.6/site-packages/tmtk/utils/cached_property.py in
↳ __get__(self, obj, type)
    48         value = obj.__dict__.get(self.__name__, _missing)
    49         if value is _missing:
---> 50             value = self.func(obj)
    51             obj.__dict__[self.__name__] = value
    52         return value
```

```
~/local/lib/python3.6/site-packages/tmtk/utils/filebase.py in _df(self)
    24         df = self.create_df()
    25         df = self._df_processing(df)
---> 26         self._hash_init = hash(df.__bytes__())
    27         return df
    28
```

```
~/local/lib/python3.6/site-packages/pandas/core/generic.py in
↳ __getattr__(self, name)
    5178             if self._info_axis.
↳ _can_hold_identifiers_and_holds_name(name):
    5179                 return self[name]
-> 5180             return object.__getattr__(self, name)
    5181
    5182     def __setattr__(self, name, value):
```

AttributeError: 'DataFrame' object has no attribute '\_\_bytes\_\_'