

Main

Templated main, "MyDetector.py", where user defines the detector.

```
import DetectorPy as dp
```

```
def main(args):  
    mydet = dp.detector("name","description")
```

```
# Define detector
```

```
mydet.addMaterial(.....)
```

```
mydet.addVolume(....)
```

```
mydet.addSensitiveDetector(....)
```

```
# Output to text file:
```

```
mydet.write("TXT") # optional arguments: filename="mydet", variation="original"
```

DetectorPy Package

detector - Container Class

- * derives from Dict
- * self -- dict stores volumes
- * __materials__ -- dict stores materials
- * __sensitive__ -- dict stores sensitiveDetectors
- * __mirrors__ -- dict stores mirrors

volume - Volume definition class

material - Material definition class

sensitiveDetector - Sens def class

mirror - Mirror definition class

Output Factories

Write the detector out into a set of text files.

GeometryTXT

GeometryMySQL

GeometryROOT