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# How to add your own class to a plain Root Tree - (no EDM) - in CMSSW

## Document at i on

TW ki s:

## Code

```
cv s co -d JetEventDataformat UserCode/aosorio/UCT2015/JetEventDataformat
cv s co -d UCT15Additions UserCode/aosorio/UCT2015/UCT15Additions
```

## Pr ocedur e

- First you need to define your class in a new package (I used the `mkedanl z r` to give it the usual structure).
- Write your class (put in the `src` directory if you want). For this example, my classes are `Region` and `SimpleJet`
- At the end of my class declaration file, we need to add a type definition:

```
typedef std::vector<Region > RegionCollection;
typedef std::vector <SimpleJet > JetEventCollection;
```

- When you are done with your class declaration and definition, you need to create a `xml` file `classes_def.xml` inside the `src/` directory. This file tells what classes are you adding to the dictionary:

```
<l cgd i c t >
  <class name="Region"/ >
  <class name="std::vector <Region >"/ >
  <class name="edm::Wrapper <std::vector <Region > >"/ >
  <class name="SimpleJet"/ >
  <class name="std::vector <SimpleJet >"/ >
  <class name="edm::Wrapper <std::vector
```

- Check the buildfile. This is how mine looks like currently:

```
<use name="FWCore/Framework"/ >
<use name="FWCore/ParameterSet"/ >
<use name="PhysicsTools/UtilAlgos"/ >
<use name="FWCore/ServiceRegistry"/ >
<use name="DataFormats/Candidate"/ >
<use name="root"/ >
<use name="rootrflx"/ >
<use name="FWCore/Utilities"/ >
<export >
```

- Build your classes. If everything goes well, then you are ready to add this class to a plain Root tree in CMSSW

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Topic revision: r3 - 2013-01-30 - AndresOsorio



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