

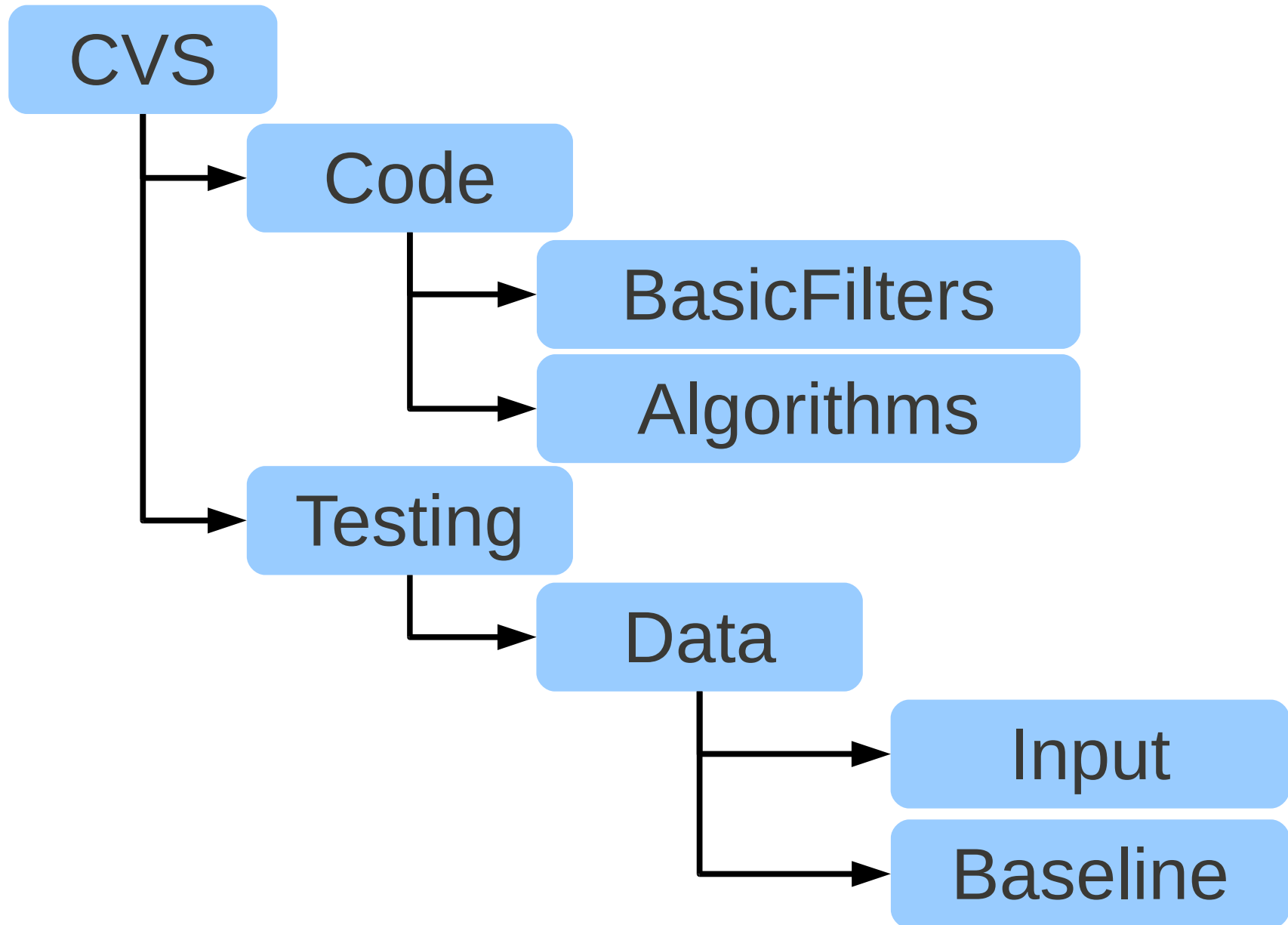
ITKv4

Testing Data

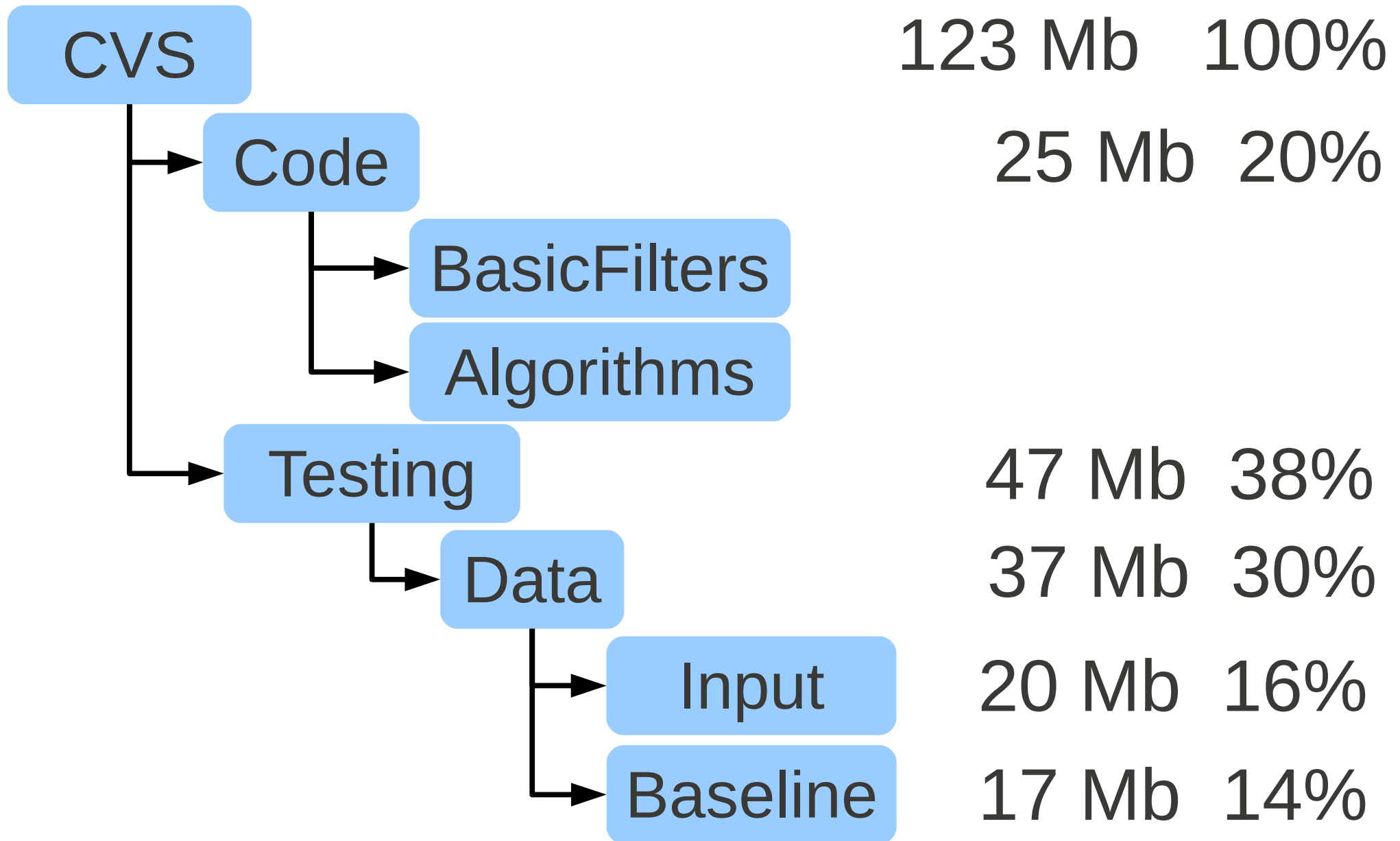
Zach Mullen – Patrick Reynolds - Luis Ibanez

If it is not tested
It is broken...

In the Beginning...



But Evil Followed...



Everything that **can** go wrong, **Will** go wrong...

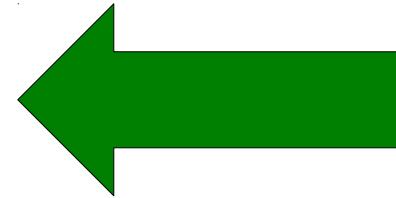
- **393,580** biorad.pic
- **446,520** small-tensors.raw
- **526,780** itkGDCMImageIOTest.dcm
- **529,352** dicom-sc_cs-1.dcm

- **1,500,227** GradientRecursive...Test.mha **2**
- **3,775,680** TensorsCorpusCallosum.raw **0**
- **4,876,920** DwiCorpusCallosum.raw **1**

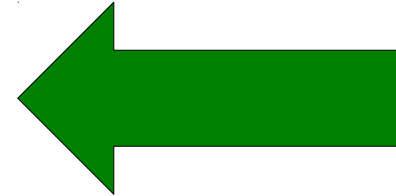
50% of Testing Data Input is taken by 3 files

The Image Changed...

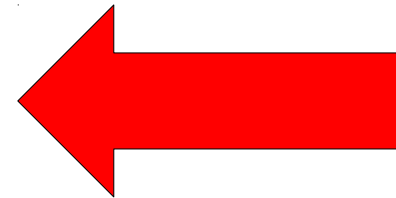
- Who ?



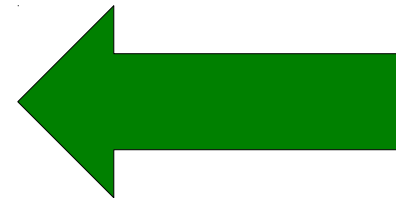
- When ?



- What ?



- Why ?



DIFF of binary is Useless !

CVS	DIFF	binary
SVN	DIFF	binary
GIT	DIFF	binary

So...

In Revision Control
We keep the copies
of binary files..

For **NOTHING** !

The Future...

Video

10 Gb

per experiment

Microscopy

1 Terabyte / day

per experiment

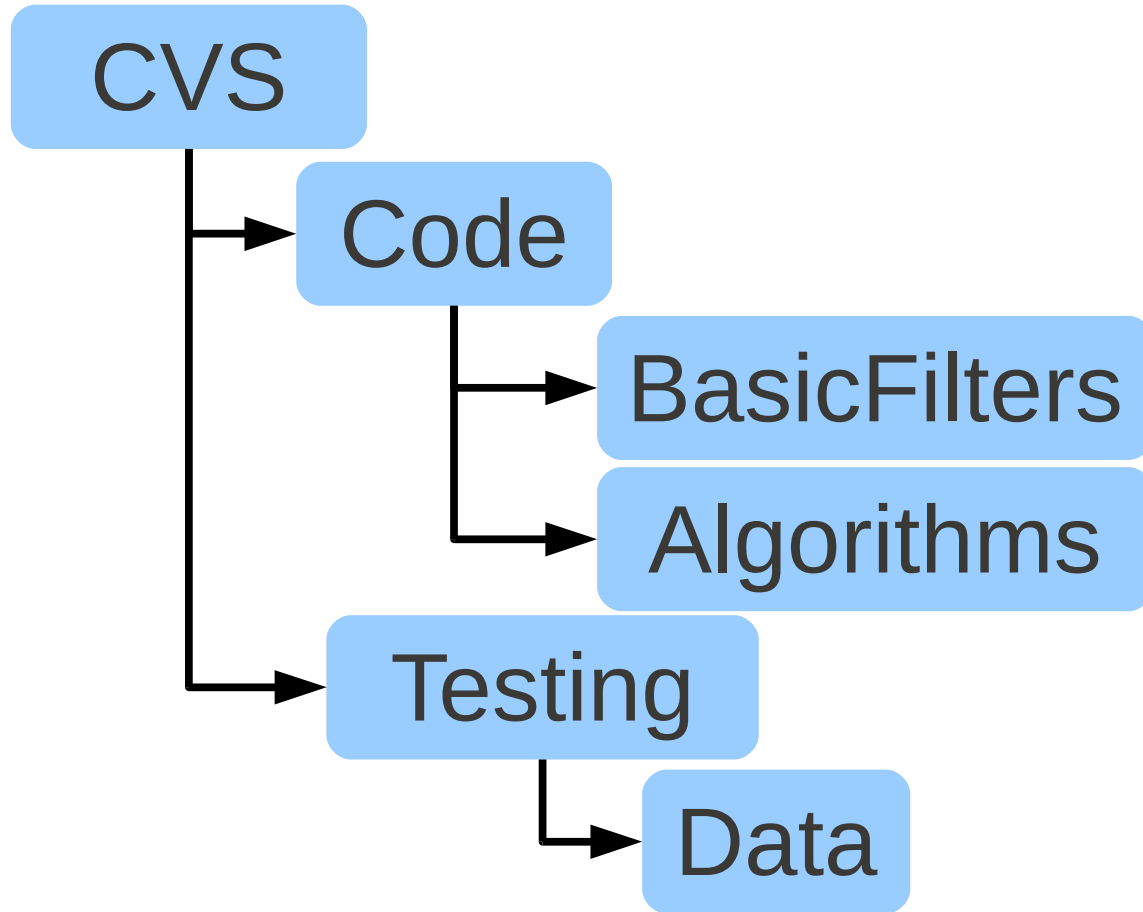
Remote Sensing

1 Gb / day

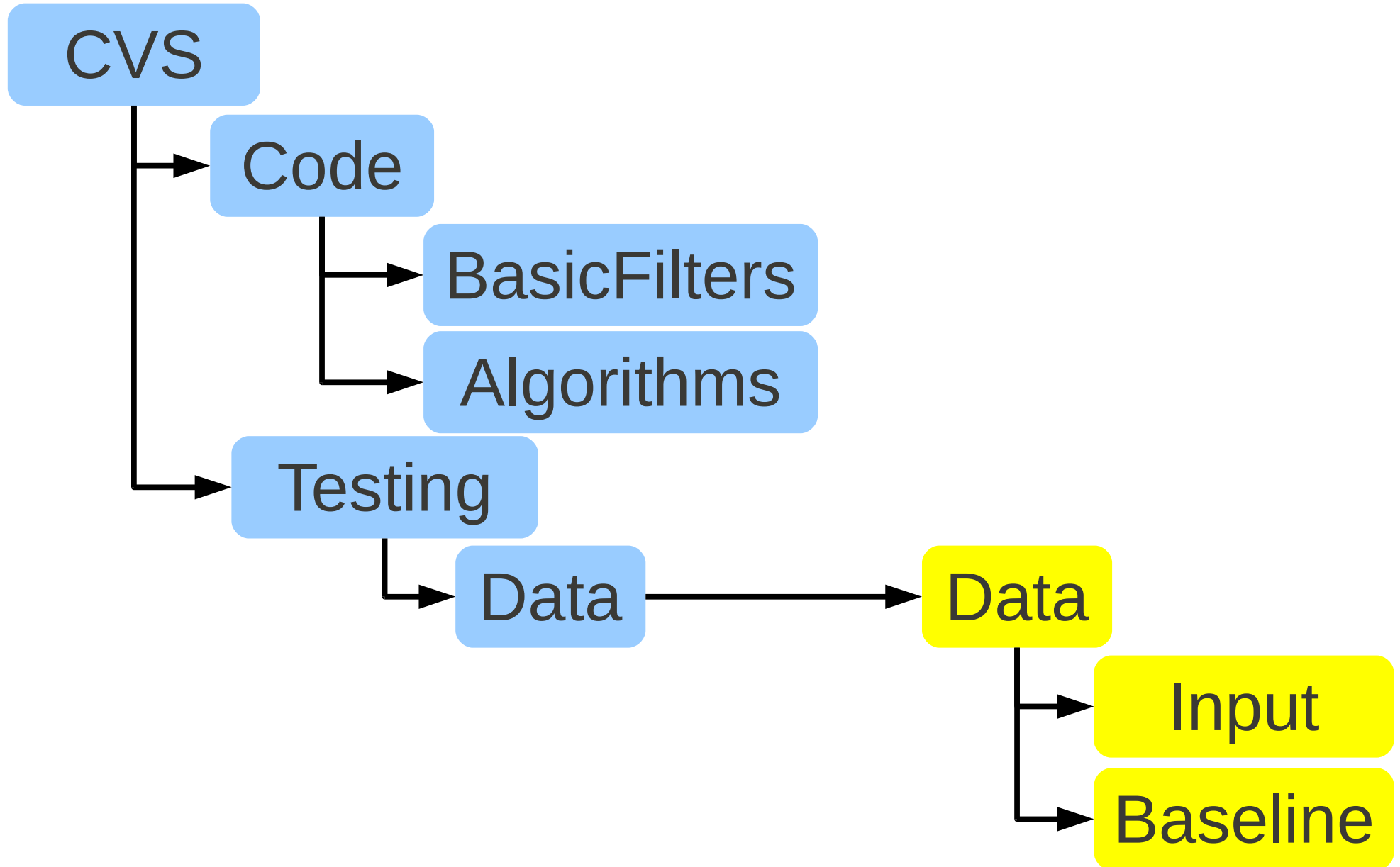
per experiment

Git Submodule

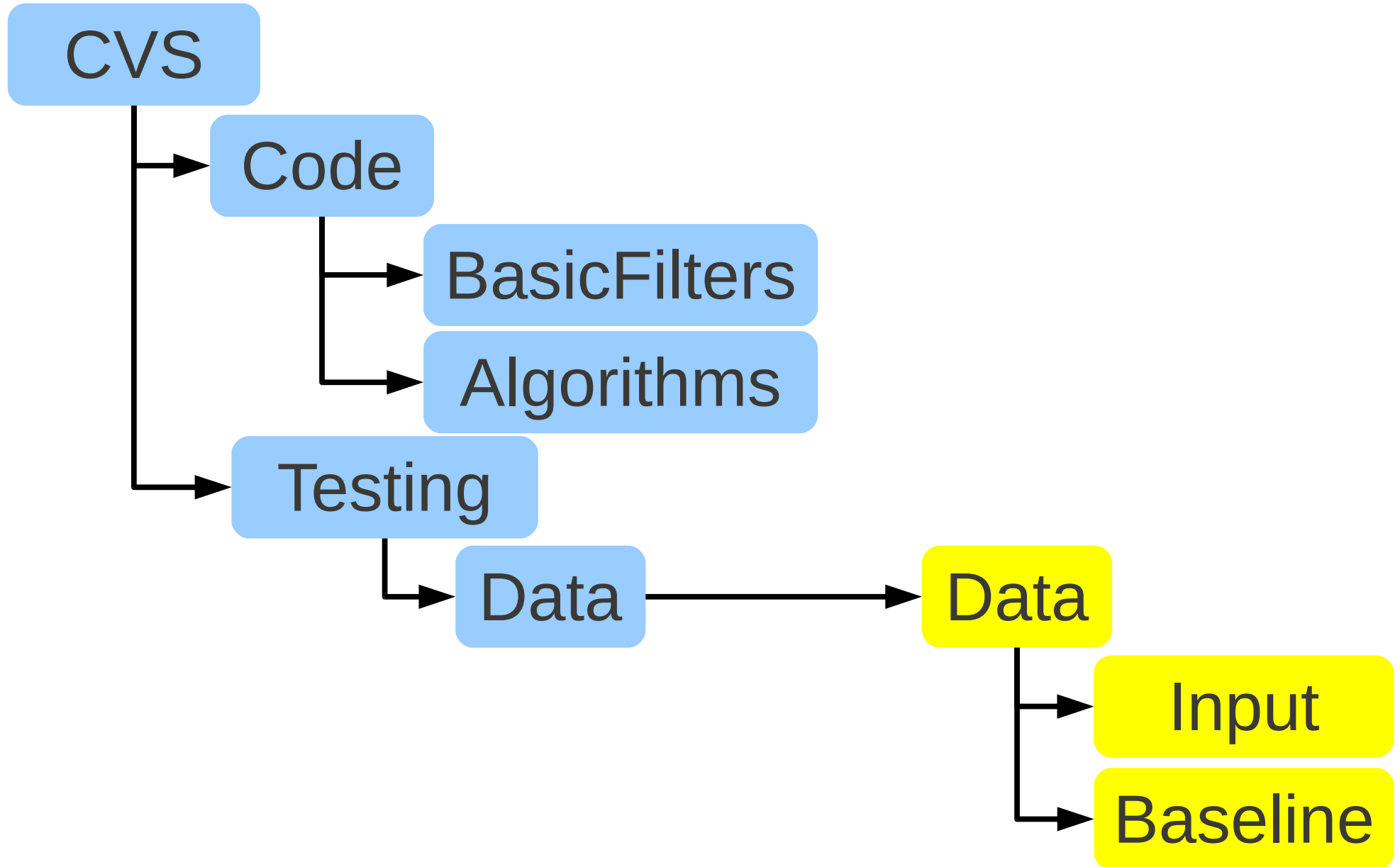
Two Git Repositories



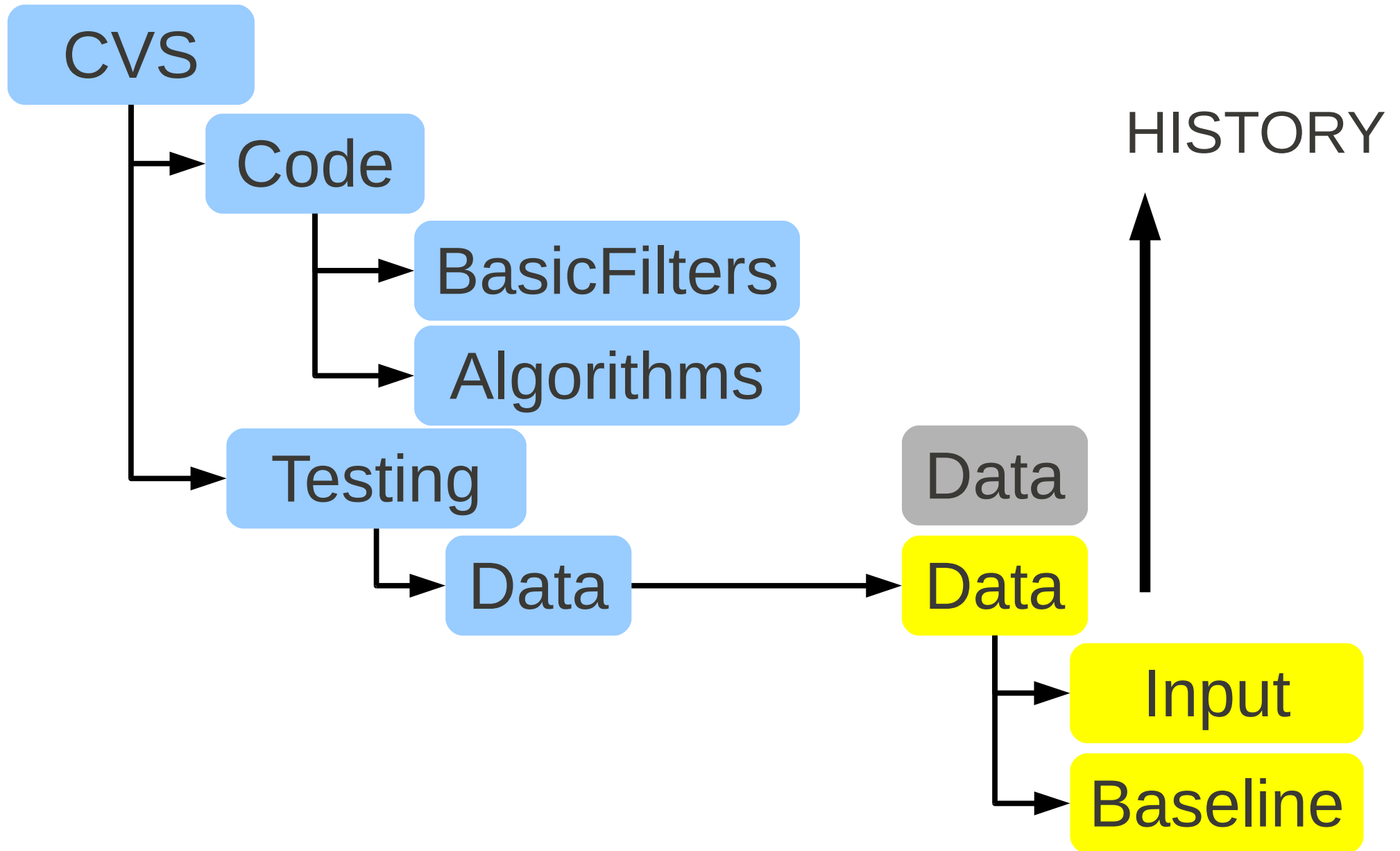
Two Git Repositories



Two Git Repositories

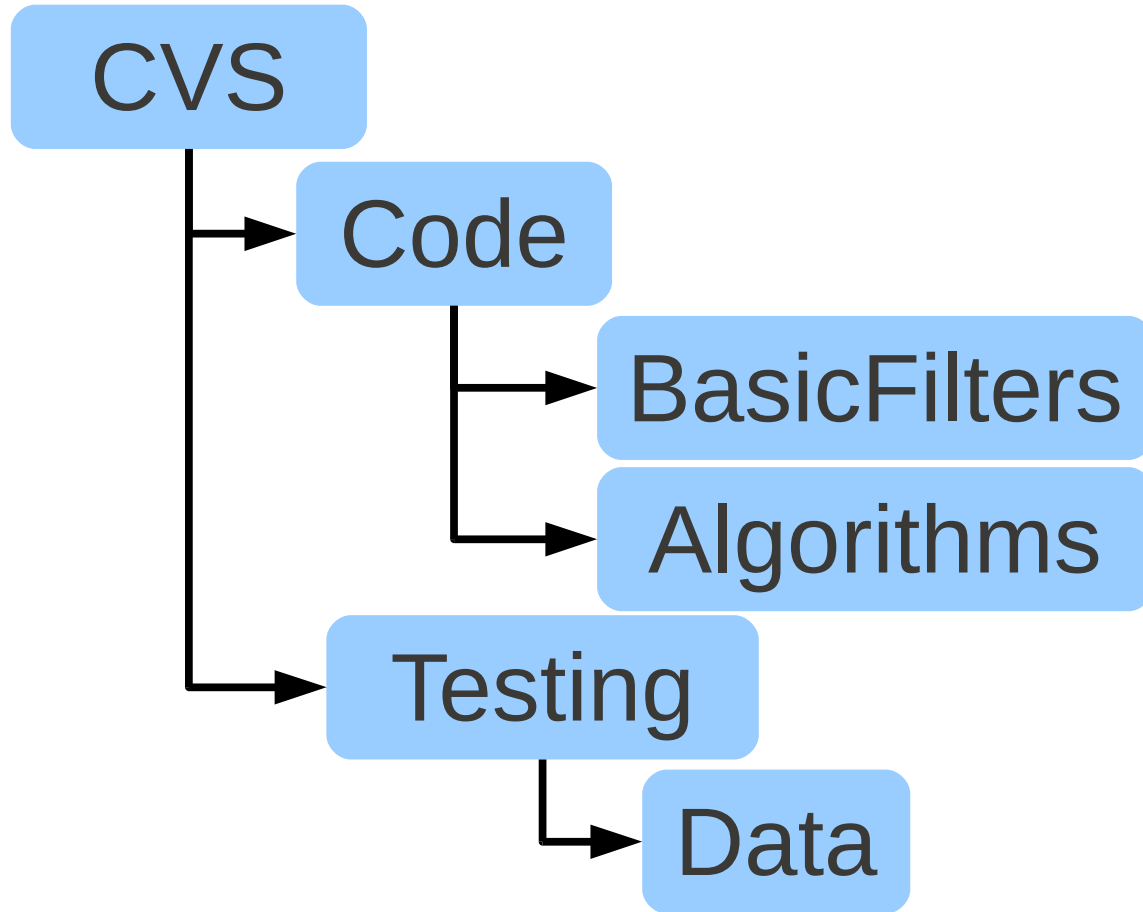


Two Git Repositories

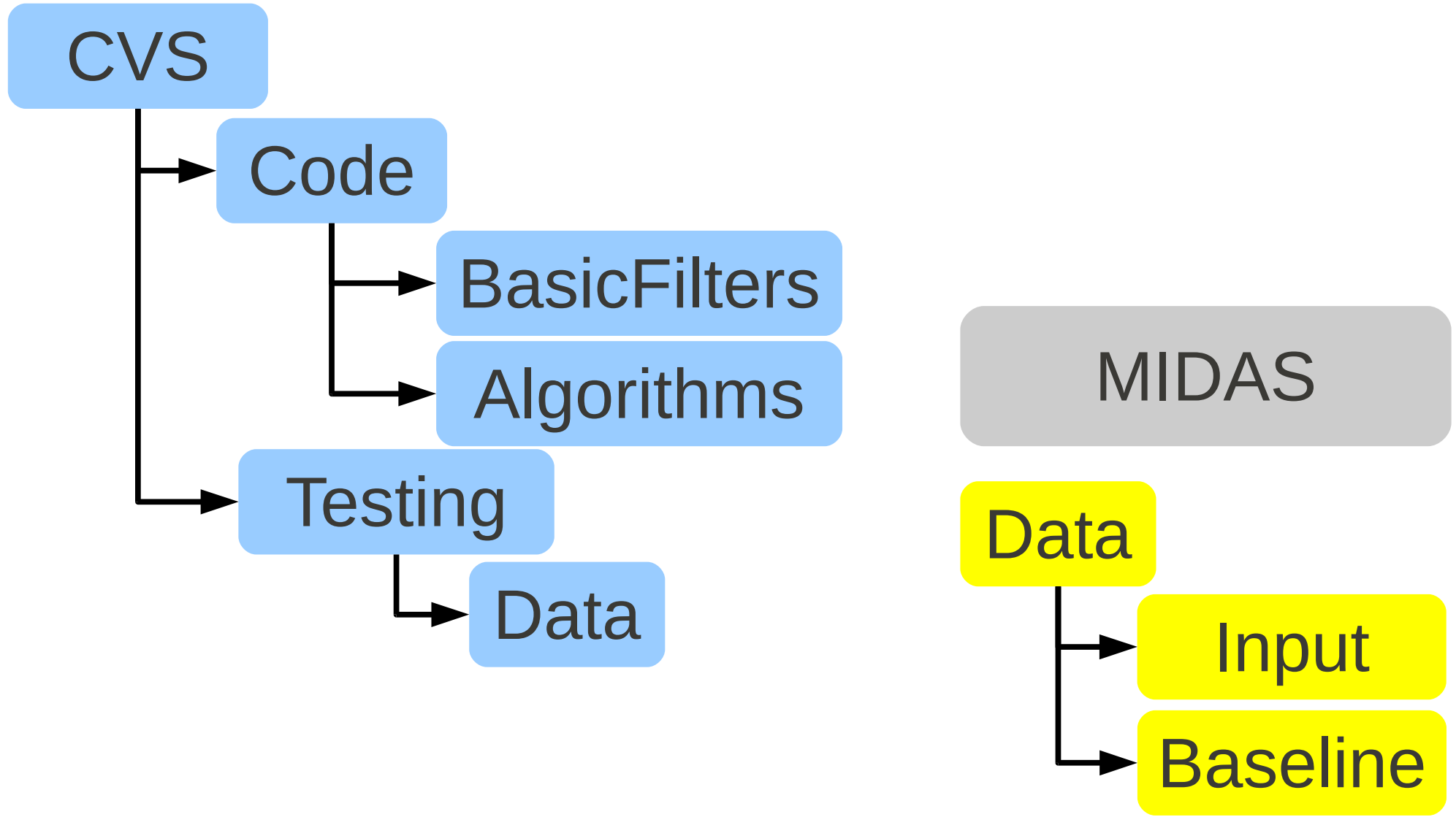


MIDAS Option

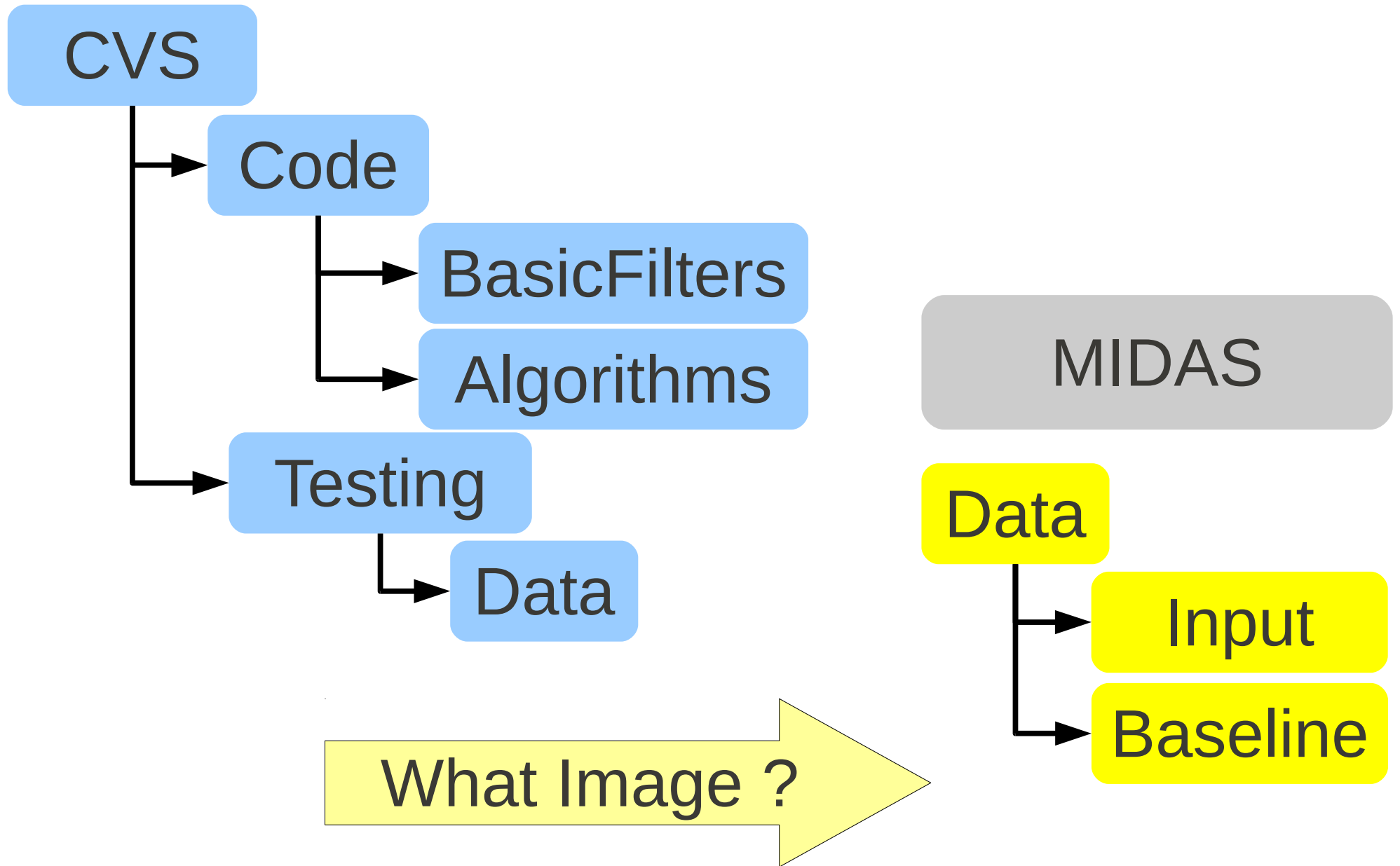
One Git Repository + Database



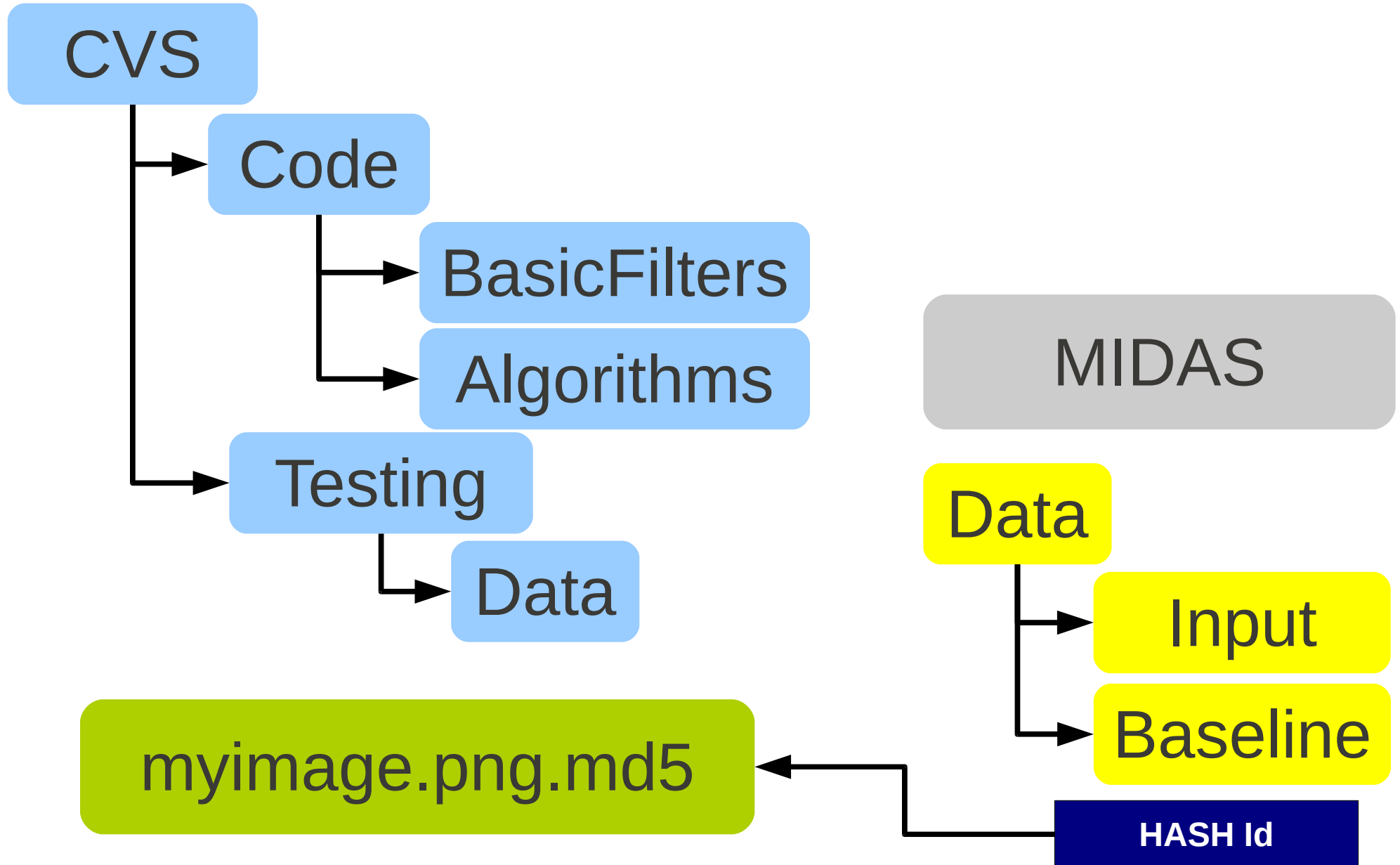
One Git Repository + Database



One Git Repository + Database



One Git Repository + Database



```
add_test( itkTest01  
  ${IO_TESTS}  
  ${ITK_DATA_ROOT}/Input/cthead1.png )
```

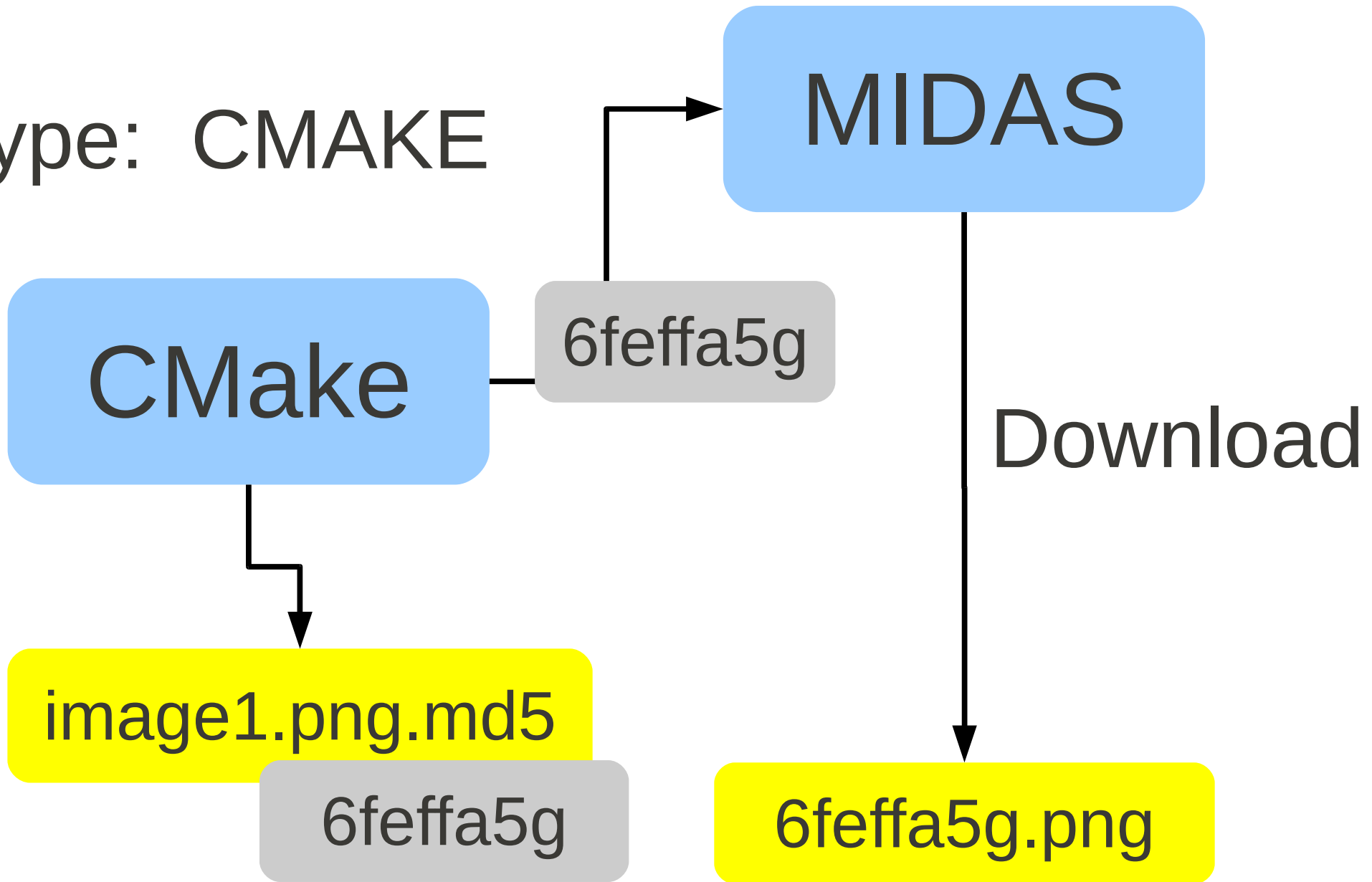
```
midas_add_test( itkTest01  
  ${IO_TESTS}  
  MIDAS{ cthead1.png.md5 }
```

ctest -N

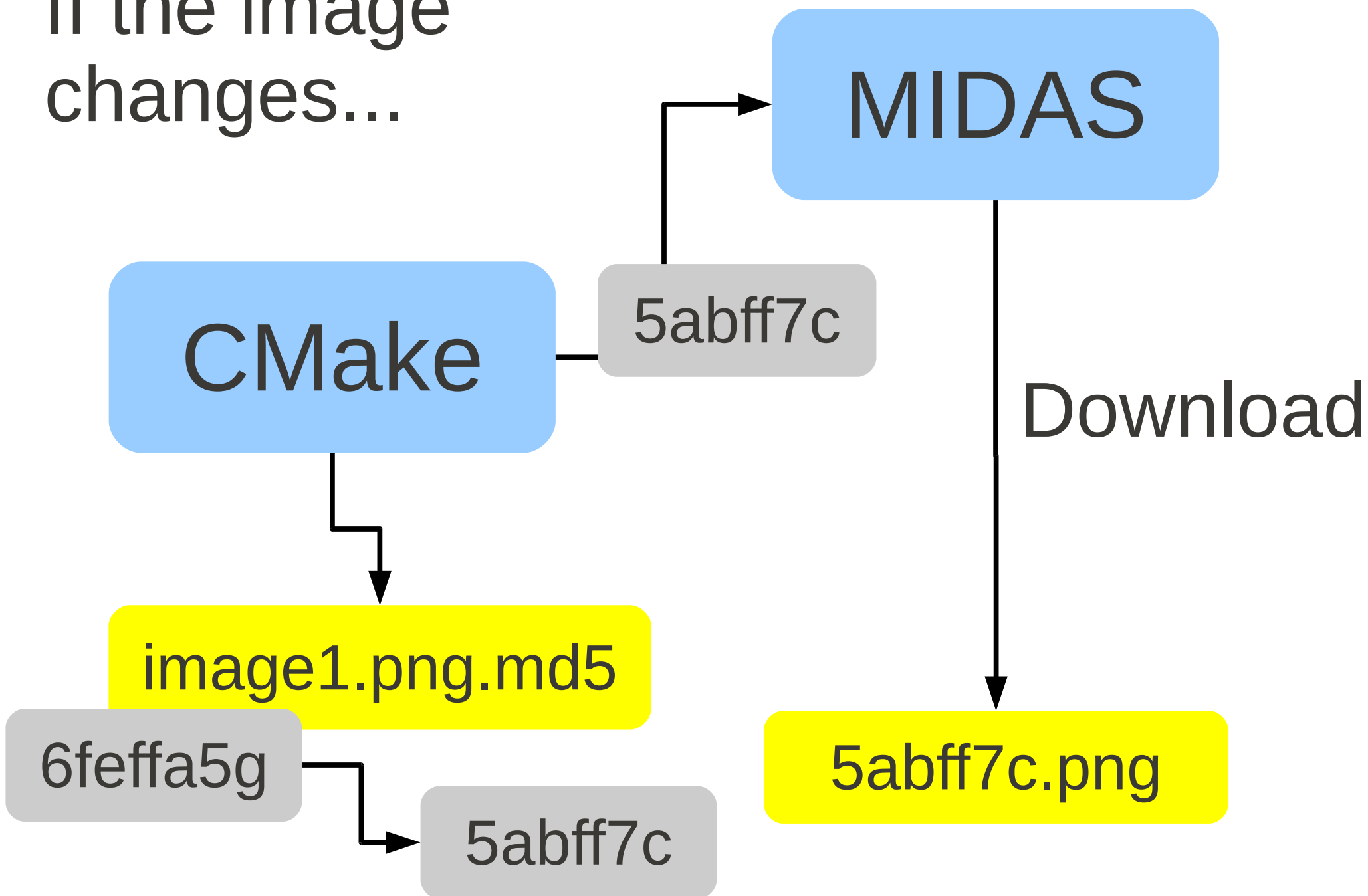
itkTest01_FetchData

itkTest01

Type: CMAKE



If the image changes...



End