Code In Frame

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Here is some python code. Note that the [fragile] keyword is required on the begin frame line. See the following site for additional details: http://robfelty.com/2008/09/22/beamer-fragile-frames

```
class GridNodeIterator(object):
    def __init__(self, grid):
        self.index = 0
        return

def __iter__(self):
        return self

def next(self):
        if self.index == self.nodes - 1:
            raise StopIteration()
        nodeobj = self.get_nodeobj(self.index)
        self.index += 1
        return nodeobis
```

Code In Figure In Frame

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```
#store the mapping from type to struct format (fmt)
typefmtd = {numpy.int32:'i', numpy.float32:'f', numpy.float64:'d'}
#read a string variable of length charlen
if vartype is str:
    result = file.read(charlen*1)
#read other variable types
else:
    fmt = typefmtd[vartype]
    #find the number of bytes for one value
    numbytes = vartype(1).nbytes
    #find the number of values
    nval = numpy.core.fromnumeric.prod(shape)
    fmt = str(nval) + fmt
    s = file.read(numbvtes * nval)
    result = struct.unpack(fmt, s)
    if nval == 1:
        result = vartype(result[0])
    else.
        result = numpy.array(result, dtype=vartype)
        result = numpy.reshape(result, shape)
return result
```