Q&A (1)

Final project

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CEE 696

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Project

- Send me your slides before the presentation
- I will upload your slides on the class website
- You will be able to update your slides as long as I stay at UHM
- (Optional) wanna share your script on the website or github? I can help you
- I will send next meeting schedules on Thursday
- MIDTERM2 : show me your progress

Reactive transport

Transport with first-order decay

reaction package - see
http://modflowpy.github.io/flopydoc/mtrct.html

```
# ireact: a flag for kinetic rate reaction (first-order)
# ireact = 0: no, 1: first-order irreversible reaction
# rc1: single value or np.array(nlay, nrow, ncol)  [1/T]

# intialization to zero decay rates
rc1 = np.zeros((nlay, nrow, ncol), dtype=np.int32)

# location of a very simplified reactive barrier
rcol = round(nrow/5)      # x index for the well
rrow1 = round(ncol/2) - 3 # y first index for the well
rrow2 = round(ncol/2) + 3 # y last index for the well
rc1[:, rrow1:rrow2+1, rcol] = 1
rct = flopy.mt3d.Mt3dRct(mt, ireact = 1, rc1=rc1,
           igetsc=0) # igetsc = 0 : no sorption
```

Boundary conditions

Which scripts (templates) we
need to follow?

Some tips about translating real-life aquifer data into a MODFLOW grid?