

# Announcements : day 05

## **HW1 released**

- Due on Thu (2 days from now)

## **Get HW help asynchronously**

- Submit your code to Gradescope autograder
- Then post Privately to instructors on Piazza
- Explain clearly
  - What you have already done to verify your code
    - Write your own tests!
  - What you are stuck on (as best you understand it)

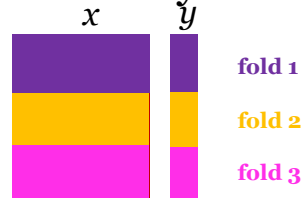
# HW1 Tips: cross\_validation.py

You do NOT need to produce exactly the same random splits as our code.

However, you need to correctly implement K-fold cross validation

- Each example is assigned to exactly one of the K folds
- No fold is larger than another fold by more than 1 example
- Each example has exactly 1 “turn” as a member of the test set
- Each example has exactly K-1 “turns” as a member of the train set

Divide labeled dataset into 3 even-sized parts



Make folds as evenly sized as possible

If you have 5 examples and 3 folds

```
all_examples = [0, 1, 2, 3, 4]
```

```
fold1_examples = [0, 2]
```

```
fold2_examples = [4, 3]
```

```
fold3_examples = [1]
```

Fit model 3 independent times.

Each time leave one fold as **validation** and keep remaining as **training**

**train**

**validation**

