



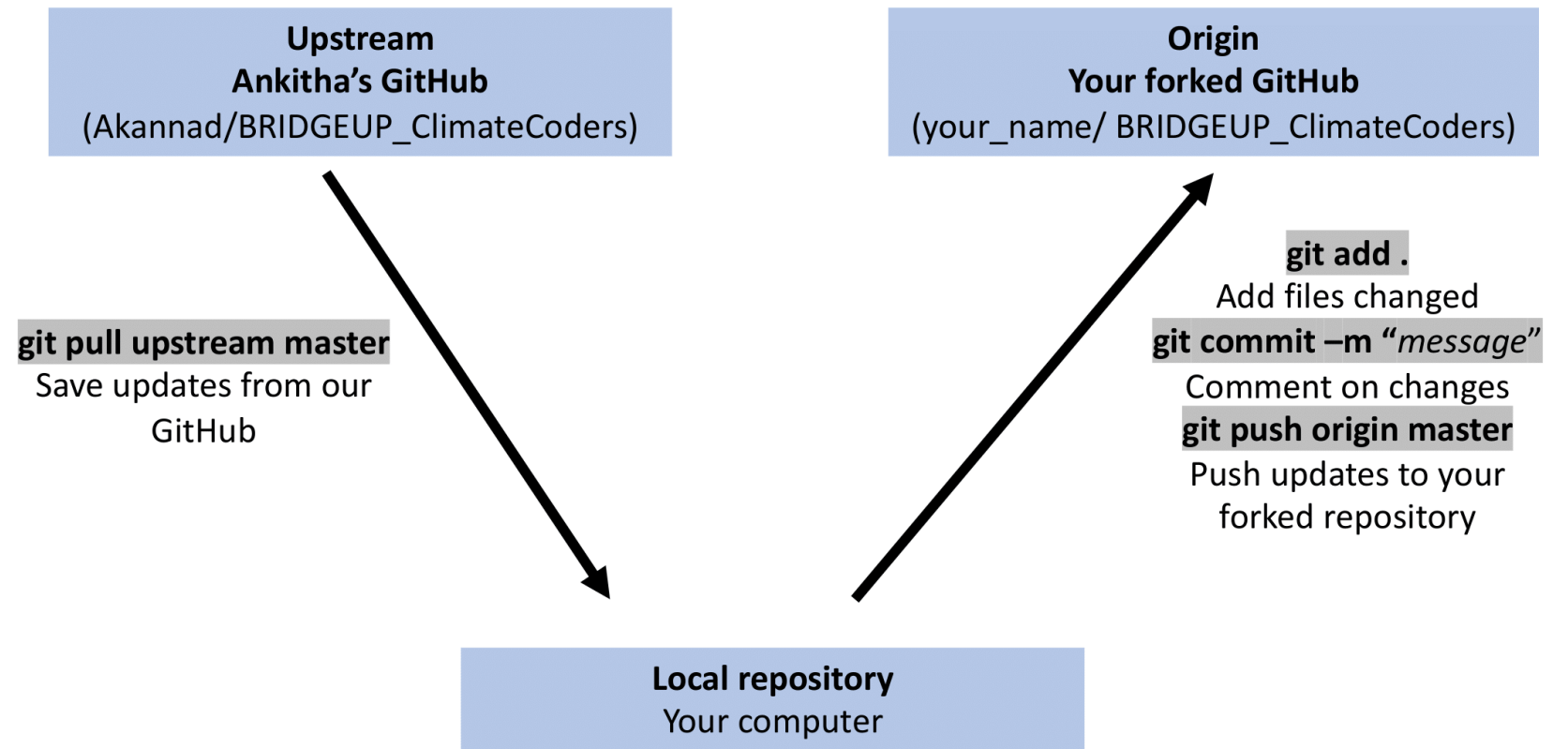
CONVERTING TIME FORMATS

UNIT 3: RECONSTRUCTING CORAL CORE DATA

MARCH 24TH 2020

HOUSEKEEPING

■ Personal check-in



NOTABLE OCEAN SCIENTIST

Asha de Vos

Marine biologist from Sri Lanka

Established Oceanswell, Sri Lanka's first marine conservation and education non-profit to protect blue whales

https://www.ted.com/talks/asha_de_vos_why_you_should_care_about_whale_poo



PLAN FOR TODAY

- ☐ NumPy array practice
- ☐ Convert time column to a readable format
- ☐ Update lab notes
- ☐ Exit survey

BREAKOUT ROOMS: NUMPY PRACTICE

Exercise: <https://campus.datacamp.com/courses/writing-efficient-python-code/foundations-for-efficiencies?ex=10>

Additional resources:

Refresher: <https://campus.datacamp.com/courses/writing-efficient-python-code/foundations-for-efficiencies?ex=9>

Or exercises in 191119 folder

Challenge: <https://campus.datacamp.com/courses/writing-efficient-python-code/foundations-for-efficiencies?ex=11>

TAKE A BREAK.

STRETCH, DANCE,
RELAX!



CODING CHALLENGE

Dates are stored in a digital time format

For example

$1880.5 = 1880 + \frac{1}{2} \text{ of a year} = 06/1880 \text{ or June } 1880$

Goal: Convert your date column into two separate columns of year and month

BREAKOUT ROOMS

In your lab-notes,

- What do we need to replace in your pseudocode for your script to work for Pandas dataframes?

Hint:

```
#Index columns  
date_df['Date']
```

```
#Index row  
date_df.loc[3]
```

```
0    1880.000000  
1    1880.083333  
Name: Date, dtype: float64
```

```
Date    1880.250000  
Data      0.180809  
Name: 3, dtype: float64
```


FUNCTION DISCUSSION

`def convert_dates (any dataframe):`

your script

`return` new dataframe with an additional year and month column

Challenge: Add in a “Day” column where all the entries are 1

```
>>> def add(a, b):  
      c = a+b  
      return c
```

```
>>> print("The sum of a and b is")  
The sum of a and b is  
>>> print(add(4, 5))  
9
```



UPDATE LAB NOTES

The image features a dark gray background with a light blue horizontal bar at the top and bottom. A vertical pink line is positioned to the left of the text. The text "EXIT SURVEY" is centered in a white, sans-serif font.

EXIT SURVEY