## How to Make Your Class iterable

in

## Python

Let's create our **own custom Range class** — because why use Python's when we can reinvent the wheel... but with *style!* 

## What is an iterator?

An **iterator** in Python is an object that lets you go through items one by one — like turning pages of a book, one page at a time.

In simpler words, think of a **book** — the book (list) has many pages (items). The **bookmark** you move page by page is the **iterator** — it remembers where you are and gives you the next page each time you ask.

## What are iterables?

An **iterable** in Python is something you can loop over — like a book that has many pages. In simpler words, the **book** itself (with all its pages) is iterable — it contains the items. When you want to read it page by page, you use a **bookmark** (**iterator**) to go through it.

```
self.start=start
       self.end=end
   def iter (self):
       return self.CustomRange Iterator(self) #this
       def init (self,counter): #as if this is an inner class so we
           self.counter=counter
           self.beg=counter.start
       def next (self):
            if self.counter.start>self.counter.end:
                self.counter.start=self.beg
            current value=self.counter.start
            self.counter.start+=1
            return current value
my range=CustomRange(1,5)
print('1st time->')
for i in my range:
   print(i)
print('2nd time->')
for i in my_range:
   print(i)
```