Python sample code:

```python
import itertools

def iter_primes():
    # an iterator of all numbers between 2 and +infinity
    numbers = itertools.count(2)

    # generate primes forever
    while True:
        # get the first number from the iterator (always a prime)
        prime = numbers.next()
        yield prime

        # this code iteratively builds up a chain of
        # filters...slightly tricky, but ponder it a bit
        numbers = itertools.ifilter(prime.__rmod__, numbers)

for p in iter_primes():
    if p > 1000:
        break
    print p
```