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```
In [ ]:
         ## Need to add your own Infura address. Can create account
         ## with free 100k API daily calls
In [ ]:
         INFURA ID = 'INSERT YOUR ID'
         %set_env WEB3_INFURA_PROJECT_ID = INFURA_ID
         from web3 import Web3
         from web3.auto.infura import w3
         w3 = Web3(Web3.HTTPProvider('INSERT YOUR ID'))
In [ ]:
         from ens.auto import ns
         from ens import ENS
         provider = Web3.HTTPProvider('INSERT YOUR INFURE MAINNET ADDDRESS')
         ns = ENS(provider)
         w3.isConnected()
In [ ]:
         ## Create list of all possible 3-char addresses
         ## (excludes numbers which are also allowed)
In [ ]:
         domains = []
         i = 0
         from string import ascii lowercase
         for x in ascii lowercase:
             for y in ascii_lowercase:
                 for z in ascii lowercase:
                     a=""
                     a += x
                     a += y
                     a += z
                     a += ".eth"
                     domains.append(a)
In [ ]:
         ## Checking which addresses have owners
In [ ]:
         ownerList = []
         for i in range(0,len(domains)):
             ownerList.append(ns.owner(domains[i]))
In [ ]:
         1 = len(domains)
         MatrixOwners = [[0 for x in range(2)] for y in range(1)]
In [ ]:
         for i in range(len(domains)):
             MatrixOwners[i][0] = domains[i]
             if i < len(ownerList):</pre>
                 MatrixOwners[i][1] = ownerList[i]
```

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```
In [ ]: ## Output 2-column csv with domains & owners addresses
In [ ]: dataframe_Owners= pandas.DataFrame(MatrixOwners)

In [ ]: dataframe_Owners.to_csv("~/Desktop/ENS_3char_Domains_Owners.csv")
```