Mans & Dictionaries

python dict class is very significant; offers unique abstraction of a dictionary in which unique keys are mapped to associated values

> Map ADT:

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-M[k] & return value associated with they k in map M

-M[k] = v: associate value v with key k in may M

-M.get (k, d=None): return MCkJ if k exists, else return d

-M. setdefault(k, d): if key exists, return M(k1; else, set = d

M. pop(k,d=None): remove item; if key not in map return None

Counting Word Frequencies

break apart original cloc using file & string methods that creates a loop to stream a lower cose version of all separated pieces of document

is use python dictionary to track

freq = {}

for piece in open (filename). read(). lower(). split():

word = ". join (c for c in piece if c. isalphal))

if word:

freq[word] = freq.get(word, 0) + 1

max Count = 0, max Word = "

for (w, c) in freq. (tems()

if c 7 max (ount:

maxWord = W

Matable Mapping

collections madule provides 2 abstract have classes relevant to current discussion:

- Mapping: includes all nonmutating methods supported by dict class

- Matable Mapping: extends mapping to Include mutating methods