Stemming & Lemmatization: form of a words showing vivision stem / le mun. Ly propon reduction of the word to its lemma ( bosse monally am, ave, is -Car, car's, cars, cars' (and by matching the headrond from a dictionary.). (morphology) , (chops) the end of a rard, and assumes that the stem has been obtained. 7 inflectional mus photogy. derivational worphology

Text processing for 1R systems-Stop words & their removal. - 10000 (do not have their own)
meaning of their own) Arhicles propre positions, Conjunction, pronouns
stop soros.

Sa, any the, hill, was, weil, and Very forguent in a document spequent sous souls frequent in document. Design policy: not separantely index these rooss. Caveats: physics quenes of Arc

auto mat automation, automatic.... > automatic.... > stemmer. Porter Stemmer. Dis ( (Caresses -) Caress) JSSES -> SS ies -> i (ponies -> ponie)

SS (vivoss -> Careso -> careso)

S (vivoss -> Cat)

S (vivos) (catis -> Cat) (achiele - achie). longest match from the Carines (\* hg\*) ing -> \$\int \backling \talking Stage 2. (\* hg\*) ing -[played -> play]

auto mat actornation, automatic .... - sterning ational -(digitizer - digitize) izer alter coate of perator of operate)? ale of (revival -> exerciv).

The of (activate -> active).

efficient > Skip pointers 23331 Phonse queries 281 Positional indexing. 18 -> 11 -> 17 -> 21 -> 31  $O\left(X+Y\right)$ Can we make it any better? Augment the postings 218t -> [Skip pointers] Dostines list are har changing too fast.

those doc Ds Khich boil with feature in Sleip Huse doc/Ds e hicient the search Tille have reached II in the second list 11/2 we make it any better? Augment 11a poshingo 2181 - Skip pointers وإنعام إيه أته

INTERSECT WITH SKIP ( P1, P2) cursiver < > Khile P17 NIL 24 P27 NIL do if docID (P1) = docID (P2) then ADD (answer, LocID (p2)). P1 < next(P1) P2 < nept(P2) else if doc 10(p1) < doc 10(p2) then if hasskip(p1) & 2 (doe 10 (ship(p1) < doc 10(P2) then while hasship (p1) 22 (dal D (ship (pi)) < doc 10(p2)) do p1 ← 8hip(p1) p1 < next (p1) else if hasship (Pz) & 2 (docto (ship (Pz)) Kdalo (P1)) then while has ship (p2) 22 (doc lD(ship (P2)) ZdoclD(Pi)) lo \$2 < 8 kip (\$2) \$2 < next (\$2)

returnano wer

More pointers muans sume insure Differ many ship pointers? I IR designer with home restine.

2) where to place them? Trade off. is for a S. Dud beries with More ships.

Ship spans will be shorter.

hardly nies anything

hardly nies anything

hardly nies anything Les ships des pointer compasisons.
Unsuccessful forequently. Oistinoly rever If the list size wind by then were in the Maffat & Zobel 1996] Keeping TI ship pointers evenly placed empirically gives the best performance. Easy - Lis not growing frequently.

More pointers means more Monoy. of the sold of confining the sold former series Laden postings list from dish to menury can & surprise the benefit of merging time simed by these additional pointrotime somed by these grands.

The solution of t The inventor Stanford Overhinshy never pent to university size (21) and [] bold Royment web queries phrase gheries. besing with sold indeping with positional indeping with the industrial of the continuent of the contin

Birrod Indexing - index es biograms. - "Friends, Romans, Countrymen liferends romans, " romans countrymon! The Each of these birrodo - added to the dictionary. stanford university AND ustanford university palo alto palo alto Extended birrords. What is the past of speech of each post in group / document? POS tagger. Bucket all the ferms that are mounts (N) and articles for epositions (X).

Extended binood: NX\*N

Catcher in the rye

NX X

King of Denmark

N

Vocabulan... New vocabulary - all the extend biroots of the form NX\*N Careat: could easily blow up. Positional indexes (reconstruction of the portings list).
Postings list in a nonpositional index: each posting is just a docto. · Postings list in a positional index: each fosting is a doctot a list of positions.

e - polyplant landa (to) be or not (to) be 993427: (7,18,33,72,86,231) 2: < 1, 17, 74, 222, 255 harg in Hand ( document) 4: (8, 16, 190, 429, 433 Bucket all the Fermio the 5: < 363,367 X frenesihow (X). 7: <13,23,191); be, 178239 <1:<17,25> 4: < 17, 191, 291, 430 5: 414, 19, 1017; alt the postings, list of to, be, or, not. 2) Progressive intersectable postings list stashing men positional picked down : gob NoThword or the pos · considirage la lail & EQUALITY