		K	CrKwic .	:	
Dau	mnet				
		¹ -Lo	et Leydesdorff ²		
	KiKwic	PullText	KıKwic	>	
, KiKwi Dauminet	с			·	
: I	PullText, KrKwic,		· ·		
		1.			
(Krippendorff, 1980).			가	,	
Danowski(1993)		>	, 가	(category) , (e	xtemal)
· 가 (, 200 <u>1</u>).	>	, hffrr lla cademic, con	(ohio.edu/kneuendorf/conten	flemeal
° 2003			, ларпа сво стс. од с		
¹ 712-749	214-1	,	Kitnail - Inst@lev	(KRF-2003-042-H0000 B-mail : hampark@yumail.ac	

```
1378
ccap.htm).
                                              가
                              LIWC(Linguistic Inquiry and Word Count)
                                                                                                 K
(Korean)-LIWC
                                     (
                                                      , 2004).
              , 2004).
                                           (
                                                               )
                                                                             가
                                                가
                                                      FullText
               KrKwic
                                                   (FullText
    (http://users.fmg.uva.nl/lleydesdorff/software/fulltext). KrK.wic
                                                  가
                                                  가
                                                                              KrKwic
         (KrKwic
                                                 가 가
                                                          , http://www.hanpark.net/KrKwic.zip).
                          2.
                                                      KrKwic
                          (Wasserman & Faust, 1994).
               가
                            가
                                                                               (symbol)
                                                               (Leydesdorff, 2003).
(cognitive)
    가
(prominent)
                                 (semantic association)
      가,
                                                                        가
                                                                       (Park, 2001).
                                                               가
                         KrKwic
         가
                                    (frame)
```

Loet Leydesdorff

```
( , 2001).
                                                                          가
    가
                              3. KrKwic.
  KrKwic
                      KrKwic, KrTitle, KrText 3
3.1 KrKwic(Korean Key Words In Context)
  KrKwic
                                                          . KrKwic
                                                가
(wore frequency analysis)
                                                         (default)
                                                                    ASCII
                                                     ANSI
                                                                                       1,000
     (
                                                                            ),
                                (default) text.txt
widfig.txt
                                  widfiq.dbf
                                                                                                  가
                                                (salient)
                                가
                     1
                                      가
 ∝ C:₩krkwic₩krkwic,exe
                                                                                           _ | N
This programme writes a word frequency list to the file wrdfrq.txt
Words are counted between spaces.
Input is an ASCII text-file with lines of not more than 1000 characters!
The user is prompted for the filename. Default is TEXT.TXT.
The file-extension .TXT is obligatory.
P Loet Leydesdorff, University of Amsterdam, 2004
Press any key to continue...
```

1> KtKwic

3.2 KrTitle(Korean Title)

```
KrTitle
                               (mission statement),
                                                . KrTitle
                ASCII
                                                                                   999
                                                               A
                                가
                                                                                           가
, A
                                                      999
                                                                    (default)
                                                                               text.txt
               가
                                                          ASCII
                                                                  가
                                                                                                   1024
             (default)
                        words.txt
                                                       , KrKwic
                                                                                           가
matrix.dbf:
                  (document) ×
                                     (words)
                                               2
                                   (cases) ×
                                                 (variables)
```

```
C:WkrkwicWkrtitle.exe
                                                                                            _UX
 Loet Leydesdorff, 2004; <a href="http://www.leydesdorff.net">http://www.leydesdorff.net</a>>
          The maximum number of different words is 1024.
          The words have to be unique.
          This version also works with Korean characters.
          The number of documents is only limited by the disk-size.
          This version reads from a text-file text.txt into ti.dbf Each title should be on a separate line.
          The maximum length of lines is 999.
          The programme creates a file MATRIX.dbf, containing a
          matrix in which the documents are the cases and the words the variables. COOCC.dbf contains the co-word
          matrix and COSINE.dbf the normalized co-occurrence matrix.
          Additionally, the files COOCC.DAT and COSINE.DAT are written in the so-called DL format for Ucinet and Pajek.
          The programme may overwrite files in the same directory!
          Therefore, run the programme in a special directory.
ress any key to continue...
```

2> KrTitle

```
coocc.dat
               coocc.dbf:
                                (words) ×
                                              (words)
                                                       1
                                                                             (co-occurrence)
(symmetric)
                                (cell)
  cosine.dat
               cosine.dbf:
                              (words) ×
                                            (words) [
                                                                    (cosine)
                                                                                    (symmetric)
        가 .dat
                                                                      UciNet(
                : http://www.analytictech.com/downloaduc6.htm)
                                                                    Pajek(
  가 가 : http://mrvar.fdv.uni-lj.si/sola/info4/programe.htm)
                                                                     (import)
                가
    (mapping)
                                                             SPSS
                          가 .dbf
                                                     Excel
                                                                                           가
(
                 , 2004).
```

3.3 KrText(Korean Text)

KrTitle

 KrText
 KrTitle

 .
 A
 64k

 ASCII
 textl.txt, text2.txt, text3.txt
 .
 7h

Press any key to continue...

< 3> KrText

KrKwic 가 . textixt copy textixt + text*.txt

4.



, " " " " KıKwic

, (deaning)

•

□ ti	tle tex	t - 메5	구장					
파일				*21(V)	도움말(<u>H</u>)			
기술	혁신 중		육성	1,-2/				
16개	지역 를			[원				
LG킬	텍스정	유교업	끝이 인	보인다	0.000 24906			
진옄	특성호	ł 선정·	: 댓국/	- 애크,	진주 - .탄생 .	실크		
무전되여	경임 레시 트	를 뉴스 트성하니?	& 커피: 9개 시범	. 1 조심	단생 1점회:	간 150	ംഗ ≡ഠ	ì
다하기	데] 하니	·스템게	줄. '주	디어부드	10 명 - 경영	[전 28 혁신 성	행의 구설 선과 '짠	짤•
김병	일 창관	마늘필	요한 계	곡사업-	중단"	,	,-, 0	=
지역	혁신특	성화 시	범사업을	39개 선	정	11123 1221	1 <u>404</u>	
LG C	:из (1) о	l태지역	1호 어	바이어	솔루션 ·	센터 오	픈	
			< 5	> title_text.:	txt			
,	title_text.t	ixt	KrKwic					
	title_words	e fref	(6	ነ		8	
>	ww	7.05.0	,	ŭ	<i>)</i> ·			
		itile w	ords.txt -	메모잗				
		파일(F)	편집(<u>E</u>) 사		기(⊻) 도움	음말(<u>H</u>)		
		16 개지역						
		10개시 5 기술혁신 선정 성과						
		시역						
		지역혁신 투입						
		(루입 특성화						
			< 6:	title_worde	.txt			
4144		la 1 .	, ,	mid				
, title_1	textixt t	itle-words.tx	t 18	aTitle				
				(1).			
		×			×			
		<	1> ×					
	16		_	_		_	_	
	0	0	0	0	1 0	0	0	1 0
	0	0	, ,	0	3	2	1	3
	0	0	0		ő	0	ô	ő
	1	0	3	0		2	1	4
	0	0	2	0	2		1	2
	0	0	1	0	1	1		1
	1	Λ	1	٥	1 4	2	1 1	1

```
UciNet
                                                                        (centrality),
(density),
                (clustering analysis),
                                               (multi-dimensional scaling)
   (
                                                           , 2004; , 2004).
                             , UciNet
                                                                 NetD<sub>T</sub>aw
                                           가
                     7>
                                                                                  (line)
   가
                                                                                         가
             Pajek
 기술혁신
                                               지역혁신
                                                              특성화
                                                                             16개지역
                     7>
                                                         가
                                                                가
           (performance-oriented)
                                 (horse-race journalism)
```

, 10

txt

10

5.

KiKwic . KiKwic

그러나 노조는 그동안 파업을 이유로 대량 해고된 사례가 없다며 맞서고 있어 파업 장기화는 불가피' I e정요는 9일 노조워들에 대해 오늘 6일 오후 5차를 "마지노석"으로 전해 연 무에 불위한 것은 명령' < 8> body_text1.txt ~ body_text3.txt

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[2004 8 , 2004 10]

Understanding the KrKwic: A computer program for the analysis of Korean text*

Han Woo Park1, Loet Leydesdorff

Abstract

This paper examines the KrKwic (Korean Key Word In Context) which is a computer-based content analysis software. The KrKwic is a social network computer program for analyzing a Korean text. The software is able to count how many times a word occur in the text and produces a list of words in the order of high frequency. The most frequently occurring words are defined as key words and a co-occurrence (or cosine) matrix among those words are produced. The matrix can be used as an input file to social network analysis softwares such as UciNet or Pajek, for a wide variety of analytic techniques (e.g., centrality, density, cluster analysis, multi-dimensional scaling, network diagram). This paper illustrates how to use the KrKwic using the 10 news stories regarding "regional innovation." The sampled articles were collected at http://www.daum.net.which is the most comprehensive search engine in S. Korea.

Keywords: KiKwic, computer-based content analysis software, Korean texts, social network analysis.

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