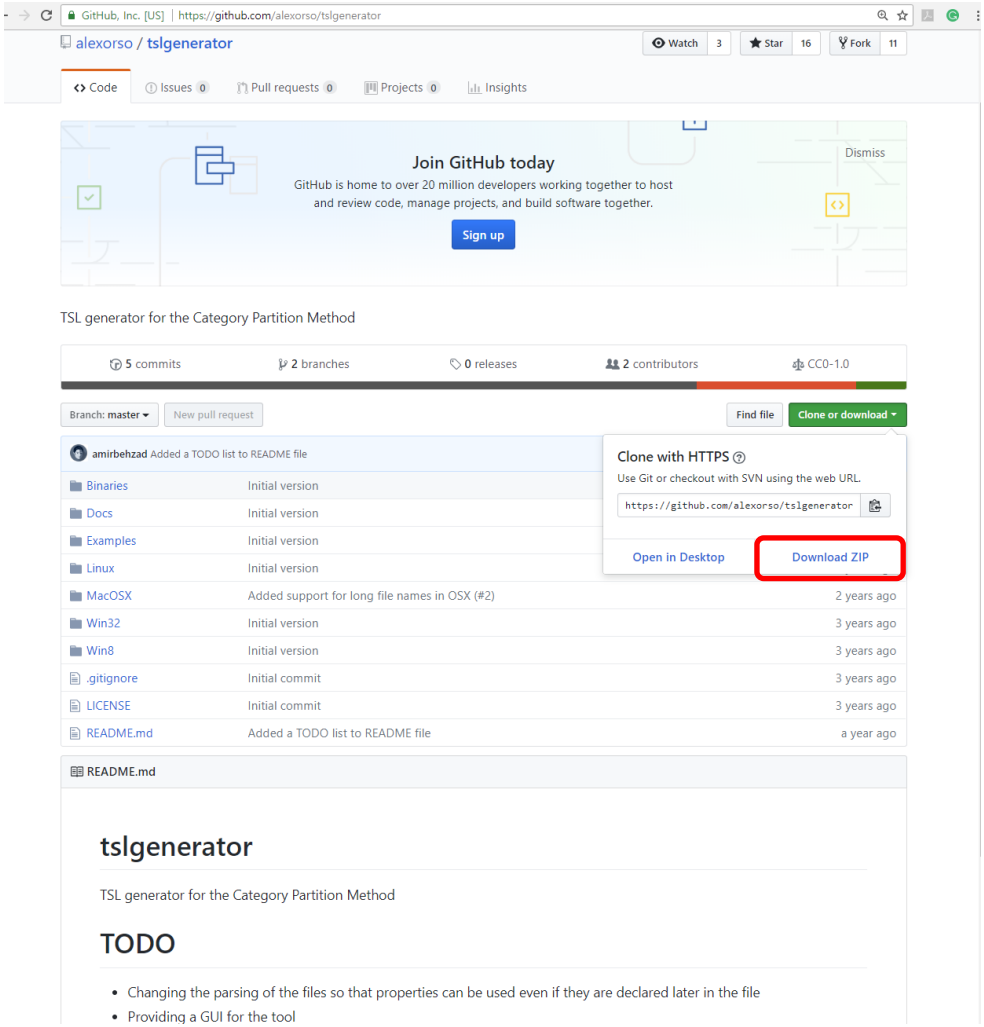
KU 건국대학교 KONKUK UNIV.

TSLgenerator 실습

Dependable Software Laboratory

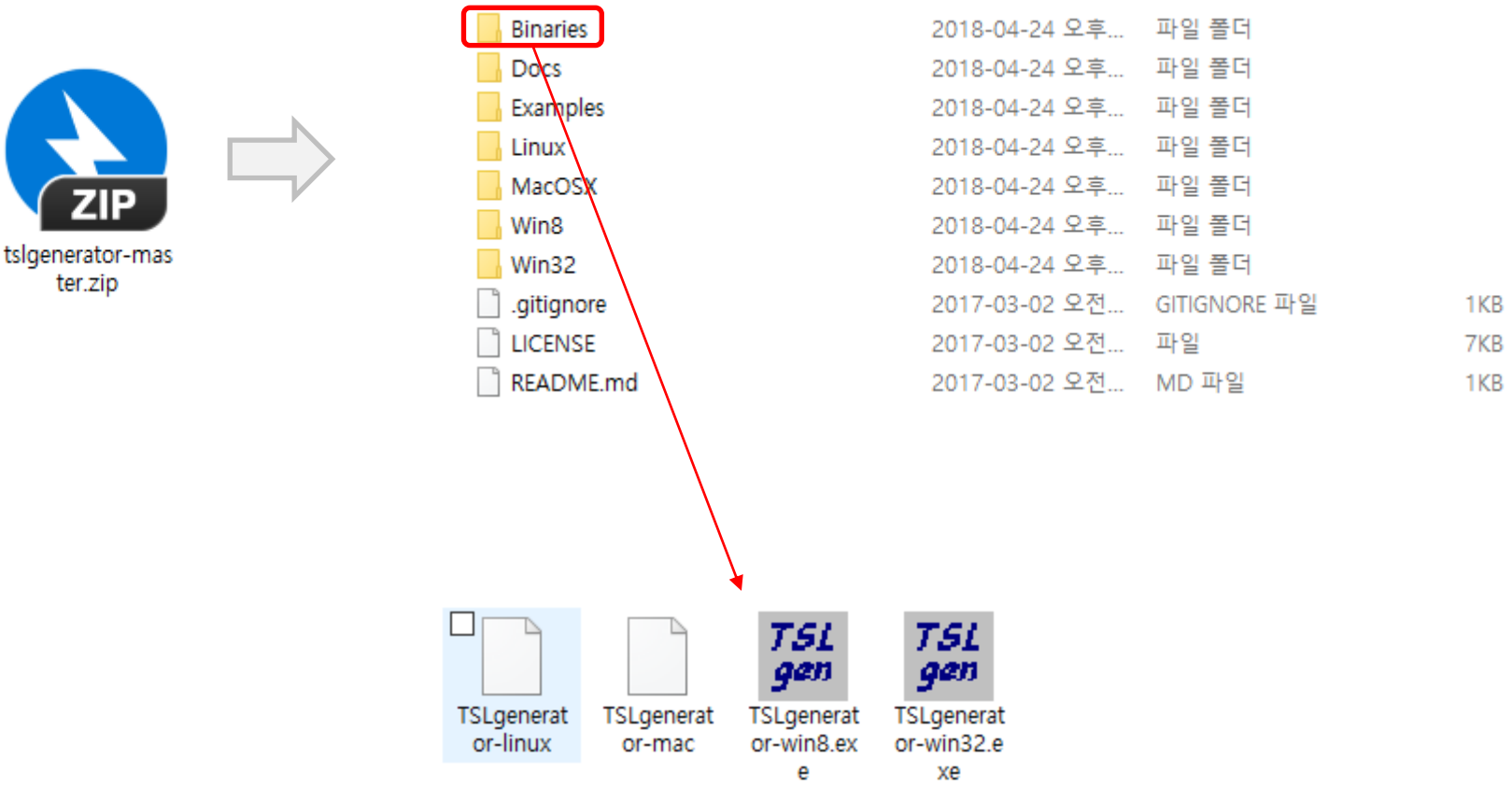
TSLgenerator 사용법

- TSLgenerator 다운
  - URL : https://github.com/alexorso/tslgenerator



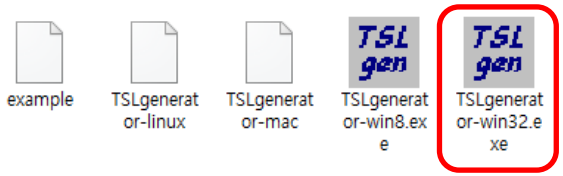
TSLgenerator 사용법

- TSLgenerator 실행



TSLgenerator 사용법

- TSLgenerator 실행



TSLgenerator-win32.exe

Usage : TSLgenerator-win32.exe [--manpage] [-cs] input_file [-o output_file]

Example : TSLgenerator-win32.exe example –o example.tsl

관리자 권한으로 실행

```
선택 관리자: C:₩WINDOWS₩system32₩cmd.exe

C:₩Users₩dslab₩Desktop₩School₩Master₩7. 수업₩3. 석사3학기₩3. 소프트웨어 검증₩Test Specification Language (TSL generator)
₩tslgenerator-master₩Binaries>dir
 C 드라이브의 볼륨: OS
 볼륨 일련 번호: C229-8283

 C:₩Users₩dslab₩Desktop₩School₩Master₩7. 수업₩3. 석사3학기₩3. 소프트웨어 검증₩Test Specification Language (TSL generator
)₩tslgenerator-master₩Binaries 디렉터리

2018-04-24  오후 06:49    <DIR>          .
2018-04-24  오후 06:49    <DIR>          ..
2017-03-02  오전 04:01             3,853 example
2017-03-02  오전 04:01           369,732 TSLgenerator-linux
2017-03-02  오전 04:01            26,840 TSLgenerator-mac
2017-03-02  오전 04:01            49,152 TSLgenerator-win32.exe
2017-03-02  오전 04:01            98,816 TSLgenerator-win8.exe
               5개 파일             548,393 바이트
               2개 디렉터리  341,649,973,248 바이트 남음

C:₩Users₩dslab₩Desktop₩School₩Master₩7. 수업₩3. 석사3학기₩3. 소프트웨어 검증₩Test Specification Language (TSL generator)
₩tslgenerator-master₩Binaries>TSLgenerator-win32.exe example -o example.tsl

----------------------------------------
  TSLgenerator

  (C) University of California Irvine,
      and Oregon State University, 2001
----------------------------------------

       567 test frames generated and written to example.tsl


C:₩Users₩dslab₩Desktop₩School₩Master₩7. 수업₩3. 석사3학기₩3. 소프트웨어 검증₩Test Specification Language (TSL generator)
₩tslgenerator-master₩Binaries>
```

TSLgenerator 사용법

- TSLgenerator 결과

input_file

```
#
# Test specification for Siena HierarchicalDispatcher
#
# (C) University of California Irvine,
#     Oregon State University, and
#     Georgia Tech, 2001
#

Environments:
    Server configuration:
    one server.
    one child and one parent.   [single]
    two children and one parent.    [single]
    at least three levels.      [single]

    Client configuration:
    one pub only.           [property PublisherOnly]
    one sub only.           [property SubscriberOnly]
    one sub and one matching pub.   [property Matching]
    one sub and two matching pubs.  [single]
    two subs and one matching pub.  [single]
    one sub and one non-matching pub.
                [single] [property Matching]
    two subs and one non-matching pub.
                [single]
    multiple subs and pubs.     [single]

Parameters:
    Server IDs:
    empty string.           [error]
    valid string.

    Type of attrs in notifications:
    invalid name.           [error] [if !SubscriberOnly]
    string.             [single] [if Matching]
    int.                [if !SubscriberOnly]
    double.             [single] [if Matching]
    boolean.            [single] [if Matching]
    multiple with same type.    [if !SubscriberOnly]
                [property MultiAttrs]
    multiple with mixed types.  [if !SubscriberOnly]
                [property MultiAttrs]

    Form of notifications:
    no attrs.           [error] [if !SubscriberOnly]
    multiple attrs with same name.  [error] [if !SubscriberOnly]
    one attr.           [if !(SubscriberOnly || MultiAttrs)]
    two attrs.          [if !SubscriberOnly]
    three to ten attrs.     [single] [if !SubscriberOnly]
```

output_file

```
Test Case 1         <single>
   Server configuration :  one child and one parent


Test Case 2         <single>
   Server configuration :  two children and one parent


Test Case 3         <single>
   Server configuration :  at least three levels


Test Case 4         <single>
   Client configuration :  one sub and two matching pubs


Test Case 5         <single>
   Client configuration :  two subs and one matching pub


Test Case 6         <single>
   Client configuration :  one sub and one non-matching pub


Test Case 7         <single>
   Client configuration :  two subs and one non-matching pub


Test Case 8         <single>
   Client configuration :  multiple subs and pubs


Test Case 9         <error>
   Server IDs :  empty string


Test Case 10        <error>
   Type of attrs in notifications :  invalid name


Test Case 11        <single>
   Type of attrs in notifications :  string


Test Case 12        <single>
   Type of attrs in notifications :  double
```

Practice with TSLgenerator

- Target Software : 유아용 영어 학습 프로그램 (영단어 수집왕)
  - URL : http://dslab.konkuk.ac.kr/Class/2015/15SMA/Team_Organization.htm