

תרגיל 3

מועד אחרון להגשה: 11/6/2016

הנחיות: יש להגיש במייל (avnei.pina.hlcp@gmail.com) או בשיעור. יש לציין שם ומספר זהות.

שאלה 1 (ניתוח תלויות תחבירי, Syntactic Dependency Parsing)

לכל אחד מהמשפטים הבאים, בחרו את עץ התלויות הנכון מבין השניים (ניתן להעזר במדריך¹ אבל לא חובה). עבור העץ השגוי, חשבו את הציון שלו לעומת הנכון, במונחי UAS ו-LAS.

- Left tree for "I ate sushi with chopsticks": root (ate) has child subj (I) and child obj (sushi). obj (sushi) has child prep (with) and child obj (chopsticks).

Right tree for "I ate sushi with chopsticks": root (ate) has child subj (I) and child prep (with). prep (with) has child obj (chopsticks). root (ate) also has child obj (sushi).
- Left tree for "You ate sushi with cucumber": root (ate) has child subj (You) and child obj (sushi). obj (sushi) has child prep (with) and child obj (cucumber).

Right tree for "You ate sushi with cucumber": root (ate) has child subj (You) and child prep (with). prep (with) has child obj (cucumber). root (ate) also has child obj (sushi).
- Left tree for "He answered the question right": root (answered) has child subj (He) and child obj (the). obj (the) has child det (question). root (answered) also has child mod (right).

Right tree for "He answered the question right": root (answered) has child subj (He) and child obj (the). obj (the) has child det (question). root (answered) also has child mod (right).
- Left tree for "She was saved by soldiers in the army": root (was) has child subj (She) and child aux (saved). aux (saved) has child prep (by) and child obj (soldiers). root (was) also has child prep (in) and child obj (the). prep (in) has child det (army).

Right tree for "She was saved by soldiers in the army": root (was) has child subj (She) and child aux (saved). aux (saved) has child prep (by) and child obj (soldiers). root (was) also has child prep (in) and child obj (the). prep (in) has child det (army).
- Left tree for "Eldorado was written by Poe": root (was) has child subj (Eldorado) and child aux (written). aux (written) has child prep (by) and child obj (Poe).

Right tree for "Eldorado was written by Poe": root (was) has child subj (Eldorado) and child aux (written). root (was) also has child prep (by) and child obj (Poe).

שאלה 2 (תיג תפקידים סמנטיים, Semantic Role Labeling)

סמנו את הפועל (verb) ואת התפקידים Patient ו-Agent (כלומר Arg0 ו-Arg1) בכל אחד מהמשפטים, וצינו האם הם הנושא (subj) והמושא (obj) בהתאמה או להיפך. במקרה של יותר ממלה אחת יש לסמן את כל הצירוף.

¹ http://nlp.stanford.edu/software/dependencies_manual.pdf. לשם פשטות, היחסים כאן לפי רמה גבוהה בהיררכיה (פרק 3).