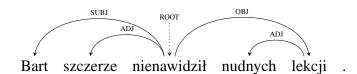
1. Bart szczerze nienawidził nudnych lekcji. (wersja z "tradycyjnym" uzgodnieniem – w regułach)



Leksykon:

• I \longrightarrow nienawidził $(\uparrow \text{ PRED}) = \text{ 'NIENAWIDZIĆ} \langle \text{SUBJ}, \text{OBJ} \rangle \text{'}$ $(\uparrow \text{ SUBJ CASE}) = \text{NOM}$ $(\uparrow \text{ SUBJ NUMB}) = \text{SG}$ $(\uparrow \text{ SUBJ GEND}) = \text{M1}$ $(\uparrow \text{ OBJ CASE}) = \text{GEN}$

• N
$$\longrightarrow$$
 Bart
 $(\uparrow \text{ PRED}) = \text{`BART'}$
 $(\uparrow \text{ CASE}) = \text{NOM}$
 $(\uparrow \text{ NUMB}) = \text{SG}$
 $(\uparrow \text{ GEND}) = \text{M1}$

• N
$$\longrightarrow$$
 lekcji
 $(\uparrow \text{ PRED}) = \text{`LEKCJA'}$
 $(\uparrow \text{ CASE}) = \text{GEN}$
 $(\uparrow \text{ NUMB}) = \text{PL}$
 $(\uparrow \text{ GEND}) = \text{F}$

• A
$$\longrightarrow$$
 nudnych
 $(\uparrow PRED) = 'NUDNY'$
 $(\uparrow CASE) = GEN$
 $(\uparrow NUMB) = PL$
 $(\uparrow GEND) = F$

• ADV \longrightarrow szczerze $(\uparrow PRED) = 'SZCZERZE'$

NP ADVP I' N' ADV I NP N szczerze nienawidził AP N' N szczerze nienawidził AP N' N nudnych lekcji

Reguly:

• IP
$$\longrightarrow$$
 NP ADVP I'
$$(\uparrow \text{SUBJ}) = \downarrow \quad \downarrow \in (\uparrow \text{ADJ}) \quad \uparrow = \downarrow$$
• I' \longrightarrow I NP

• NP
$$\longrightarrow$$
 AP* N'
$$\downarrow \in (\uparrow ADJ) \qquad \uparrow = \downarrow$$

$$(\uparrow CASE) = (\downarrow CASE)$$

$$(\uparrow GEND) = (\downarrow GEND)$$

$$(\uparrow NUMB) = (\downarrow NUMB)$$

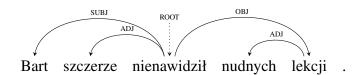
 $\uparrow = \downarrow (\uparrow OBJ) = \downarrow$

$$\begin{array}{cccc} \bullet & N' & \longrightarrow & N \\ & \uparrow = \downarrow \end{array}$$

$$\bullet \ AP \ \longrightarrow \ A \\ \uparrow = \downarrow$$

$$\begin{array}{ccc} \bullet & \mathsf{ADVP} & \longrightarrow & \mathsf{ADV} \\ & \uparrow = \downarrow \end{array}$$

1. Bart szczerze nienawidził nudnych lekcji. (wersja z uzgodnieniem w leksykonie)



Leksykon:

• I \longrightarrow nienawidził $(\uparrow \text{ PRED}) = \text{ 'NIENAWIDZIĆ} \langle \text{SUBJ}, \text{OBJ} \rangle \text{'}$ $(\uparrow \text{ SUBJ CASE}) = \text{NOM}$ $(\uparrow \text{ SUBJ NUMB}) = \text{SG}$ $(\uparrow \text{ SUBJ GEND}) = \text{M1}$ $(\uparrow \text{ OBJ CASE}) = \text{GEN}$

• N
$$\longrightarrow$$
 Bart
 $(\uparrow PRED) = 'BART'$
 $(\uparrow CASE) = NOM$
 $(\uparrow NUMB) = SG$
 $(\uparrow GEND) = M1$

• N
$$\longrightarrow$$
 lekcji
 $(\uparrow \text{ PRED}) = \text{`LEKCJA'}$
 $(\uparrow \text{ CASE}) = \text{GEN}$
 $(\uparrow \text{ NUMB}) = \text{PL}$
 $(\uparrow \text{ GEND}) = \text{F}$

• A
$$\longrightarrow$$
 nudnych
 $(\uparrow \text{ PRED}) = \text{`NUDNY'}$
 $((\text{ADJ} \in \uparrow) \text{ CASE}) = \text{GEN}$
 $((\text{ADJ} \in \uparrow) \text{ NUMB}) = \text{PL}$
 $((\text{ADJ} \in \uparrow) \text{ GEND}) = \text{F}$

• ADV \longrightarrow szczerze $(\uparrow PRED) = 'SZCZERZE'$

NP ADVP I' N' ADV I NP N szczerze nienawidził AP N' A N nudnych lekcji

Reguly:

• IP
$$\longrightarrow$$
 NP ADVP I' $(\uparrow \text{SUBJ}) = \downarrow \quad \downarrow \in (\uparrow \text{ADJ}) \quad \uparrow = \downarrow$

$$\bullet \ \ \, I' \ \ \, \longrightarrow \ \ \, \begin{matrix} I & NP \\ \uparrow = \downarrow & (\uparrow OBJ) = \downarrow \end{matrix}$$

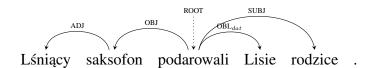
$$\begin{array}{cccc} \bullet & \mathrm{NP} & \longrightarrow & \mathrm{AP^*} & \mathrm{N'} \\ & \downarrow \in (\uparrow \; \mathrm{ADJ}) & \uparrow = \downarrow \end{array}$$

$$\begin{array}{cccc} \bullet & N' & \longrightarrow & N \\ & \uparrow = \downarrow \end{array}$$

$$\begin{array}{cccc} \bullet & AP & \longrightarrow & A \\ & \uparrow = & \end{array}$$

$$\begin{array}{ccc} \bullet & \mathsf{ADVP} & \longrightarrow & \mathsf{ADV} \\ & \uparrow = \downarrow \end{array}$$

2. Lśniący saksofon podarowali Lisie rodzice. (wersja z "tradycyjnym" uzgodnieniem – w regułach)



Leksykon:

Reguly:

$$\uparrow = \downarrow \quad (\uparrow OBL_{dat}) = \downarrow \quad (\uparrow SUBJ) = \downarrow$$

$$\bullet \text{ NP } \longrightarrow \qquad AP^* \qquad N'$$

$$\downarrow \in (\uparrow ADJ) \qquad \uparrow = \downarrow$$

$$(\uparrow CASE) = (\downarrow CASE)$$

NP

 $(\uparrow \text{GEND}) = (\downarrow \text{GEND})$

NP

NP

I

 $(\uparrow OBJ) = \downarrow \uparrow = \downarrow$

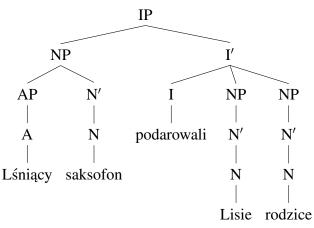
• N \longrightarrow rodzice $(\uparrow \text{ PRED}) = \text{`RODZIC'}$ $(\uparrow \text{ CASE}) = \text{NOM}$ $(\uparrow \text{ NUMB}) = \text{PL}$ $(\uparrow \text{ GEND}) = \text{M1}$

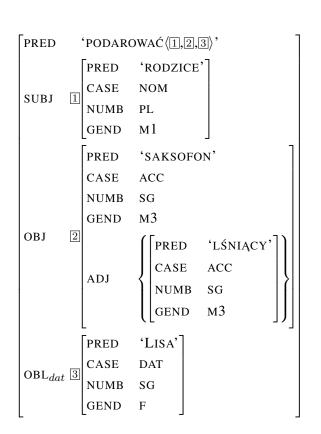
 $(\uparrow \text{NUMB}) = (\downarrow \text{NUMB})$ • N' \longrightarrow N $\uparrow = \downarrow$

• N \longrightarrow Lisie $(\uparrow \text{ PRED}) = \text{`LISA'}$ $(\uparrow \text{ CASE}) = \text{DAT}$ $(\uparrow \text{ NUMB}) = \text{SG}$ $(\uparrow \text{ GEND}) = \text{F}$

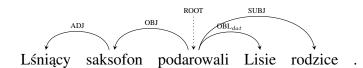
 $\begin{array}{cccc} \bullet & AP & \longrightarrow & A \\ & \uparrow = \downarrow \end{array}$

- N \longrightarrow saksofon $(\uparrow PRED) = \text{`SAKSOFON'}$ $(\uparrow CASE) = ACC$ $(\uparrow NUMB) = SG$ $(\uparrow GEND) = M3$
- A \longrightarrow $l\acute{s}niqcy$ $(\uparrow PRED) = `L\acute{s}niacy`$ $(\uparrow CASE) = ACC$ $(\uparrow NUMB) = SG$ $(\uparrow GEND) = M3$





2. Lśniący saksofon podarowali Lisie rodzice. (wersja z uzgodnieniem w leksykonie)



Leksykon:

Reguly:

NP

• I
$$\longrightarrow$$
 podarowali
(\uparrow PRED) = 'PODAROWAĆ \langle SUBJ, OBJ, OBL $_{dat}\rangle$ '

(\uparrow SUBJ CASE) = NOM

(\uparrow SUBJ NUMB) = PL

(\uparrow SUBJ GEND) = M1

(\uparrow OBJ CASE) = ACC

(\uparrow OBL $_{dat}$ CASE) = DAT

 $\downarrow \in (\uparrow ADJ) \uparrow = \downarrow$

N'

NP

 AP^*

 $(\uparrow OBJ) = \downarrow$

• N
$$\longrightarrow$$
 rodzice
 $(\uparrow PRED) = `RODZIC`$
 $(\uparrow CASE) = NOM$
 $(\uparrow NUMB) = PL$
 $(\uparrow GEND) = M1$

$$\bullet \ \ \mathsf{N'} \ \ \longrightarrow \ \ \ \overset{\mathsf{N}}{\wedge} - \mathsf{I}$$

$$\begin{array}{cccc} \bullet & AP & \longrightarrow & A \\ & \uparrow = & \end{array}$$

• N
$$\longrightarrow$$
 Lisie
 $(\uparrow \text{ PRED}) = \text{`Lisa'}$
 $(\uparrow \text{ CASE}) = \text{DAT}$
 $(\uparrow \text{ NUMB}) = \text{SG}$
 $(\uparrow \text{ GEND}) = \text{F}$

- saksofon \bullet N \longrightarrow $(\uparrow PRED) = 'SAKSOFON'$ $(\uparrow CASE) = ACC$ $(\uparrow NUMB) = SG$ $(\uparrow \text{ GEND}) = \text{M3}$
- A → lśniący $(\uparrow PRED) = 'LŚNIĄCY'$ $((ADJ \in \uparrow) CASE) = ACC$ $((ADJ \in \uparrow) NUMB) = SG$ $((ADJ \in \uparrow) GEND) = M3$

