-2,-1,-0,+0,+1,+2 — word position identifiers (the features are used to determine the relation between the words at -0 and +0)

α_x, β_x, ρ_x, ξ_x, ϵ_x — x's lowercase text, word cluster, part-of-speech, rightmost child, and leftmost child, respectively.
ϱ_x — if ρ_x ends with \$: ρ_x else: first two letters of ρ_x
κ_x, ω_x — x's original index in the sentence, first three characters (lowercase), respectively
τ_x — if $\rho \in$ {IN,WRB,WP}: α_x+ρ_x else ρ_x
δ_x — dependency links from x; left/right direction is included; *prep*, and *punct* links include word form; *nsubj* includes form if it is 'it'; advmod links include word cluster; additional indicator if x has a relative pronoun *nsubj*, *nsubj→prep→pobj*, *dobj*, *iobj*, or *prep→pobj* or as a *poss* of these positions.
γ_x — target of dependency arc x
λ_x — κ_{ξ_x} - κ_{ϵ_x}
$\eta_{x,y}$ — token y places to the right of token x in original token order
σ_x, Δ_x — determiner (or possessor) of x, indicator if x is either possessive or a definite determiner

for $\mathbf{x} \in$ {-2,-1,-0,+0,+1,+2}
τ_x, ϱ_x, α_x, β_x, ξ_x!=null & ϵ_x!=null, $\tau_x \wedge \lambda_x$, $\rho_x \in$ {VBD,VBN}, $\rho_x \in$ {NNS,VBZ}, $\rho_x \in$ {NN,VB}, $\alpha_x \in$ {the,a,an}
for x where $MAX(\kappa_{-0}\kappa_{+0} - 10) < \kappa_x < \kappa_{+0}$: τ_x
for x where $MAX(\kappa_{-0}, \kappa_{+0} - 10) < \kappa_x < \kappa_{+0}$ & $\alpha_x \in$ {“ ; : – ( )}: α_x
for $\mathbf{x} \in$ {-1,-0,+0,+1}: if ρ_x == CC: ξ_x!=null & ϵ_x!=null, $\alpha_x \wedge \rho_{\epsilon_x} \wedge \rho_{\xi_x}$
for $\mathbf{x} \in$ {-2,-1,-0,+0,+1,+2}: for y $\in \delta_x$: y
if ρ_{-1}==CC
$\tau_{-2}\wedge\tau_{-0}\wedge\tau_{+0}$, $\tau_{-2}\wedge\tau_{-0}\wedge\tau_{+0}\wedge\rho_{\xi_{-2}}\wedge\rho_{\epsilon_{-2}}$
for $\mathbf{x} \in$ {-0,+0}: $(\rho_x == \rho_{-2})\wedge\tau_{+0}$, $(\varrho_x == \varrho_{-2})\wedge\tau_{+0}$, $(\alpha_x == \alpha_{-2})\wedge\tau_{+0}$
if ρ_{-0}==CC
$\rho_{-2}\wedge\rho_{-1}\wedge\rho_{+0}$, $\varrho_{-2}\wedge\varrho_{+0}$
for $\mathbf{x} \in$ {+0,+1,+2}: for $\mathbf{y} \in$ {-2,-1}: $\alpha_x==\alpha_y$, $\rho_x==\rho_y$, $\varrho_x==\varrho_y$
if ρ_{+0}==CC
$\rho_{\xi_{+0}}==\rho_{-0}$, $\varrho_{\xi_{+0}}==\varrho_{-0}$, $\alpha_{-0}==\alpha_{\xi_{+0}}$, $\alpha_{-1}==\alpha_{\xi_{+0}}$,
$\sigma_{-0}==\sigma_{\xi_{+0}}$, $\sigma_{-2}==\sigma_{\xi_{+0}}$, $\sigma_{-2}==\sigma_{\xi_{+0}}$ & $\sigma_{-0}!=\sigma_{\xi_{+0}}$, $\Delta_{\sigma_{-2}}\wedge\Delta_{\sigma_{-0}}\wedge\Delta_{\sigma_{\xi_{+0}}}$
if ρ_{+1}==CC
$\alpha_{-0}==\alpha_{+2}$, $\alpha_{-0}==\alpha_{\xi_{+1}}$, $\alpha_{\xi_{+1}}==\alpha_{-1}$, $\rho_{\xi_{+1}}==\rho_{-0}$, $\varrho_{\xi_{+1}}==\varrho_{-0}$, $\alpha_{+0}==\alpha_{+2}$, $\alpha_{+0}==\alpha_{\xi_{+1}}$,
$\tau_{-0}\wedge\tau_{+0}\wedge\rho_{\xi_{+1}}\wedge\tau_{+2}$, $\rho_{-0}\wedge\rho_{+0}\wedge\rho_{+2}$
if ρ_{+2}==CC
if ξ_{+2} != null: for $\mathbf{x} \in$ {-0,+0,+1}: $\alpha_{\xi_{+2}}=\alpha_x$, $\rho_{\xi_{+2}}=\rho_x$, $\varrho_{\xi_{+2}}=\varrho_x$
else ξ_{+2} == null
for {$\mathbf{x}$,k} $\in$ {{+0,{-0,-1,-2}}, {+1,{+0,-0,-1}}, {+2,{+0,-0}}}
if (ρ_x==CC): for x $\in \delta_{\xi_x}$: for $\mathbf{y} \in$ k: for z $\in \delta_y$: x$\wedge$z
for {$\mathbf{x}$,$\mathbf{y}$} $\in$ {{+0,-0},{+1,+0}}
for z $\in \delta_x$: if z==whadvmod: $\alpha_{\gamma_z}\wedge\alpha_y$, $\alpha_{\gamma_z}\wedge\tau_y$, $\alpha_{\gamma_z}\wedge\beta_y$, α_y, τ_y, β_y
for {$\mathbf{x}$,$\mathbf{y}$} $\in$ {{-1,-0}, {-0,+0}, {+0,+1}}
for a $\in \delta_x$: for b $\in \delta_y$: a$\wedge$b
for x $\in \delta_{-0}$: $\tau_{+0}\wedge$x, $\beta_{+0}\wedge$x
for x $\in \delta_{+0}$: $\tau_{-0}\wedge$x, $\beta_{-0}\wedge$x
for $\mathbf{x} \in$ {-0,+0}: for y $\in \delta_x$
$\tau_x\wedge$y, $\beta_x\wedge$y
for z $\in \delta_x$: if y != z: y$\wedge$z
$\tau_{-1}\wedge\tau_{+1}$, $\tau_{-0}\wedge\tau_{+0}\wedge\beta_{\xi_{+0}}$, $\tau_{-0}\wedge\tau_{+0}\wedge\beta_{\xi_{-0}}$, η_{+0}, $\eta_{+0,-1}\wedge\eta_{+0,-0}$
for **{x, y}** $\in$ {{-1,+0},{-1,-0},{-0,+0},{+0,+1},{-0,+1}}
$\tau_x\wedge\tau_y$, $\alpha_x\wedge\alpha_y$, $\alpha_x\wedge\tau_y$, $\tau_x\wedge\alpha_y$, $\beta_x\wedge\beta_y$, $\tau_x\wedge\tau_y\wedge\rho_{\epsilon_x}\wedge\rho_{\epsilon_y}$, $\tau_x\wedge\tau_y\wedge\rho_{\epsilon_x}\wedge\rho_{\xi_y}$, $\tau_x\wedge\tau_y\wedge\rho_{\xi_x}\wedge\rho_{\epsilon_y}$, $\tau_x\wedge\tau_y\wedge\rho_{\xi_x}\wedge\rho_{\xi_y}$
if ϱ_{-2}!=VB & ϱ_{-1}!=VB & ϱ_{+1}!=VB & ϱ_{+2}!=VB: ϱ_{-0}!=VB & ϱ_{+0}==VB, ϱ_{+0}!=VB & ϱ_{-0}==VB
if (-1==null & +1==null): $\tau_2 \wedge \tau_{+0}$, $\beta_2 \wedge \beta_{+0}$
if ρ_{-0} == IN: $\alpha_{-1}\wedge\alpha_{-0}\wedge\rho_{\xi_{-0}}$, $\tau_{-1}\wedge\alpha_{-0}\wedge\alpha_{\xi_{-0}}$, $\beta_{-1}\wedge\beta_{-0}\wedge\beta_{\xi_{-0}}$, $\tau_{-1}\wedge\beta_{-0}\wedge\beta_{\xi_{-0}}$
if ρ_{+0} == IN
for x $\in$ {-2,-1}: $\omega_x\wedge\alpha_{+0}\wedge\rho_{\xi_{+0}}$, $\tau_x\wedge\alpha_{+0}\wedge\alpha_{\xi_{+0}}$
$\omega_{-0}\wedge\alpha_{+0}\wedge\rho_{\xi_{+0}}$, $\tau_{-0}\wedge\alpha_{+0}\wedge\alpha_{\xi_{+0}}$, $\beta_{-0}\wedge\beta_{+0}\wedge\beta_{\xi_{+0}}$, $\tau_{-0}\wedge\beta_{+0}\wedge\beta_{\xi_{+0}}$
if ξ_{+0} != null: $\omega_{-1}\wedge\varrho_{-0}\wedge\alpha_{+0}$, $\omega_{-1}\wedge\tau_{-0}\wedge\alpha_{+0}$, $\omega_{-0}\wedge\alpha_{+0}\wedge\tau_{+1}$, ξ_{+0} != null, $\omega_{-2}\wedge\alpha_{+0}$, $\omega_{-1}\wedge\alpha_{+0}$, $\omega_{-0}\wedge\alpha_{+0}$,
$\tau_{-2}\wedge\alpha_{+0}$, $\tau_{-1}\wedge\alpha_{+0}$, $\tau_{-0}\wedge\alpha_{+0}$
if ρ_{+1} == IN: $\omega_{+0}\wedge\alpha_{+1}\wedge\rho_{\xi_{+1}}$, $\omega_{-0}\wedge\alpha_{+1}\wedge\rho_{\xi_{+1}}$, $\tau_{+0}\wedge\alpha_{+1}\wedge\alpha_{\xi_{+1}}$, $\tau_{-0}\wedge\alpha_{+1}\wedge\alpha_{\xi_{+1}}$, $\beta_{-0}\wedge\beta_{+1}$, $\tau_{-0}\wedge\beta_{+1}$,
$\beta_{-0}\wedge\beta_{+1}\wedge\beta_{\xi_{+1}}$, $\tau_{-0}\wedge\beta_{+1}\wedge\beta_{\xi_{+1}}$
for {$\mathbf{x}$,$\mathbf{y}$} $\in$ {{-2,-1},{-1,-0},{-0,+0},{+0,+1},{+1,+2}}: $|\kappa_x$-$\kappa_y| > 1$, $(|\kappa_x$-$\kappa_y| > 1)\wedge\tau_x\wedge\tau_y$
($\tau_{-0} \in$ {JJ,NN,NNS,NNP,NNPS}) $\wedge$ ($\exists$ x $\in \delta_{-0}$: α_{γ_x}=='too' $\vee$ α_{γ_x}=='enough')
for x $\in$ {{-1,-2},{+1,+2}}: for y $\in$ x: β_y, ϱ_y

Figure 1: Feature templates. If the variable is in bold, then the value of the variable is considered to be part of the identifier for any features produced by the templates utilizing that variable (only variables holding word indices may appear in bold).