

Første spæde udkast til Logiweb rapport, version 0.01

Judith Mertz-Nielsen, Bo Christiansen

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Hello world! Denne version har indhold fra to prioritetstabeller. Det ser ud til at give problemer.

1 Pyk definitions

```
([mytest  $\xrightarrow{\text{pyk}}$  "mytest"]  
)p
```

2 Priority table

Priority table

Preassociative

```
[mytest], [base], [bracket * end bracket], [big bracket * end bracket], [ $ * $ ],  
[flush left [*]], [[x], [y], [z], [[*  $\bowtie$  *]], [[*  $\xrightarrow{*}$  *]], [pyk], [tex], [name], [prio], [*], [T],  
[if(*, *, *)], [[*  $\Rightarrow$  *]], [val], [claim], [ $\perp$ ], [f(*)], [(*)I], [F], [0], [1], [2], [3], [4], [5], [6],  
[7], [8], [9], [0], [1], [2], [3], [4], [5], [6], [7], [8], [9], [a], [b], [c], [d], [e], [f], [g], [h], [i], [j],  
[k], [l], [m], [n], [o], [p], [q], [r], [s], [t], [u], [v], [w], [(*)M], [If(*, *, *)],  
[array{*} * end array], [l], [c], [r], [empty], [(* * := *)], [ $\mathcal{M}(*)$ ], [ $\tilde{\mathcal{U}}(*)$ ], [ $\mathcal{U}(*)$ ],  
[ $\mathcal{U}^M(*)$ ], [apply(*, *)], [apply1(*, *)], [identifier(*)], [identifier1(*, *)], [array-  
plus(*, *)], [array-remove(*, *, *)], [array-put(*, *, *, *)], [array-add(*, *, *, *, *)],  
[bit(*, *)], [bit1(*, *)], [rack], ["vector"], ["bibliography"], ["dictionary"],  
["body"], ["codex"], ["expansion"], ["code"], ["cache"], ["diagnose"], ["pyk"],  
["tex"], ["texname"], ["value"], ["message"], ["macro"], ["definition"],  
["unpack"], ["claim"], ["priority"], ["lambda"], ["apply"], ["true"], ["if"],  
["quote"], ["proclaim"], ["define"], ["introduce"], ["hide"], ["pre"], ["post"],  
[ $\mathcal{E}(*, *, *)$ ], [ $\mathcal{E}_2(*, *, *, *, *)$ ], [ $\mathcal{E}_3(*, *, *, *)$ ], [ $\mathcal{E}_4(*, *, *, *)$ ], [lookup(*, *, *)],
```

$[\tilde{\mathcal{M}}_4(*, *, *, *)]$, $[\mathcal{M}(*, *, *, *)]$, $[\mathcal{Q}(*, *, *, *)]$, $[\tilde{\mathcal{Q}}_2(*, *, *, *)]$, $[\tilde{\mathcal{Q}}_3(*, *, *, *)]$, $[\tilde{\mathcal{Q}}^*(*, *, *, *)]$, $[(*)]$, $[(*)]$, $[\text{display}(*)]$, $[\text{statement}(*)]$, $[[*]]$, $[[*^-]]$, $[\text{aspect}(*, *, *)]$, $[\text{aspect}(*, *, *, *)]$, $[[*]]$, $[\text{tuple}_1(*)]$, $[\text{tuple}_2(*)]$, $[\text{let}_2(*, *, *)]$, $[\text{let}_1(*, *, *)]$, $[[* \stackrel{\text{claim}}{=} *]]$, $[\text{checker}]$, $[\text{check}(*, *, *)]$, $[\text{check}_2(*, *, *, *)]$, $[\text{check}_3(*, *, *, *)]$, $[\text{check}^*(*, *, *)]$, $[\text{check}_2^*(*, *, *, *)]$, $[[*^\cdot]]$, $[[*^-]]$, $[[*^\circ]]$, $[\text{msg}]$, $[[* \stackrel{\text{msg}}{=} *]]$, $<\text{stmt}>$, $[\text{stmt}]$, $[[* \stackrel{\text{stmt}}{=} *]]$, $[\text{HeadNil}']$, $[\text{HeadPair}']$, $[\text{Transitivity}']$, $[\perp]$, $[\text{Contra}']$, $[\text{T}'_{\text{E}}]$, $[\text{L}_1]$, $[\perp]$, $[\mathcal{A}]$, $[\mathcal{B}]$, $[\mathcal{C}]$, $[\mathcal{D}]$, $[\mathcal{E}]$, $[\mathcal{F}]$, $[\mathcal{G}]$, $[\mathcal{H}]$, $[\mathcal{I}]$, $[\mathcal{J}]$, $[\mathcal{K}]$, $[\mathcal{L}]$, $[\mathcal{M}]$, $[\mathcal{N}]$, $[\mathcal{O}]$, $[\mathcal{P}]$, $[\mathcal{Q}]$, $[\mathcal{R}]$, $[\mathcal{S}]$, $[\mathcal{T}]$, $[\mathcal{U}]$, $[\mathcal{V}]$, $[\mathcal{W}]$, $[\mathcal{X}]$, $[\mathcal{Y}]$, $[\mathcal{Z}]$, $[(* \mid * := *)]$, $[(* \mid * := *)]$, $[\emptyset]$, $[\text{Remainder}]$, $[(*)^\vee]$, $[\text{intro}(*, *, *, *)]$, $[\text{intro}(*, *, *, *)]$, $[\text{error}(*, *, *)]$, $[\text{error}_2(*, *, *)]$, $[\text{proof}(*, *, *, *)]$, $[\text{proof}_2(*, *, *)]$, $[\mathcal{S}(*, *)]$, $[\mathcal{S}^I(*, *)]$, $[\mathcal{S}^\triangleright(*, *)]$, $[\mathcal{S}_1^\triangleright(*, *, *)]$, $[\mathcal{S}^E(*, *)]$, $[\mathcal{S}_1^E(*, *, *, *)]$, $[\mathcal{S}^+(*, *)]$, $[\mathcal{S}_1^+(*, *, *)]$, $[\mathcal{S}^-(*, *)]$, $[\mathcal{S}_1^-(*, *, *)]$, $[\mathcal{S}^*(*, *)]$, $[\mathcal{S}_1^*(*, *, *)]$, $[\mathcal{S}_2^*(*, *, *, *)]$, $[\mathcal{S}^\circledast(*, *)]$, $[\mathcal{S}_1^\circledast(*, *, *)]$, $[\mathcal{S}^\vdash(*, *)]$, $[\mathcal{S}_1^\vdash(*, *, *, *)]$, $[\mathcal{S}^\#(*, *)]$, $[\mathcal{S}_1^\#(*, *, *, *)]$, $[\mathcal{S}^{\text{i.e.}}(*, *)]$, $[\mathcal{S}_1^{\text{i.e.}}(*, *, *, *)]$, $[\mathcal{S}_2^{\text{i.e.}}(*, *, *, *, *)]$, $[\mathcal{S}^\forall(*, *, *, *)]$, $[\mathcal{S}^\forall(*, *, *, *)]$, $[\mathcal{S}^:(*, *)]$, $[\mathcal{S}_1^:(*, *, *, *)]$, $[\mathcal{S}_2^:(*, *, *, *, *)]$, $[\mathcal{T}(*)]$, $[\text{claims}(*, *, *, *)]$, $[\text{claims}_2(*, *, *, *)]$, $<\text{proof}>$, $[\text{proof}]$, $[[\text{Lemma } :: *]]$, $[[\text{Proof of } :: *]]$, $[[* \text{ lemma } :: *]]$, $[[* \text{ antilemma } :: *]]$, $[[* \text{ rule } :: *]]$, $[[* \text{ antirule } :: *]]$, $[\text{verifier}]$, $[\mathcal{V}_1(*)]$, $[\mathcal{V}_2(*, *)]$, $[\mathcal{V}_3(*, *, *, *)]$, $[\mathcal{V}_4(*, *)]$, $[\mathcal{V}_5(*, *, *, *, *)]$, $[\mathcal{V}_6(*, *, *, *, *)]$, $[\mathcal{V}_7(*, *, *, *, *)]$, $[\text{Cut}(*, *)]$, $[\text{Head}_\oplus(*)]$, $[\text{Tail}_\oplus(*)]$, $[\text{rule}_1(*, *)]$, $[\text{rule}(*, *)]$, $[\text{Rule tactic}]$, $[\text{Plus}(*, *)]$, $[[\text{Theory } *]]$, $[\text{theory}_2(*, *)]$, $[\text{theory}_3(*, *)]$, $[\text{theory}_4(*, *, *)]$, $[\text{HeadNil}']$, $[\text{HeadPair}']$, $[\text{Transitivity}']$, $[\text{Contra}']$, $[\text{HeadNil}]$, $[\text{HeadPair}]$, $[\text{Transitivity}]$, $[\text{Contra}]$, $[\text{T}_{\text{E}}]$, $[\text{ragged right}]$, $[\text{ragged right expansion}]$, $[\text{parm}(*, *, *, *)]$, $[\text{parm}^*(*, *, *, *)]$, $[\text{inst}(*, *, *)]$, $[\text{inst}^*(*, *, *)]$, $[\text{occur}(*, *, *, *)]$, $[\text{occur}^*(*, *, *, *)]$, $[\text{unify}(*=*, *)]$, $[\text{unify}^*(*=*, *)]$, $[\text{unify}_2(*=*, *)]$, $[\text{L}_a]$, $[\text{L}_b]$, $[\text{L}_c]$, $[\text{L}_d]$, $[\text{L}_e]$, $[\text{L}_f]$, $[\text{L}_g]$, $[\text{L}_h]$, $[\text{L}_i]$, $[\text{L}_j]$, $[\text{L}_k]$, $[\text{L}_l]$, $[\text{L}_m]$, $[\text{L}_n]$, $[\text{L}_o]$, $[\text{L}_p]$, $[\text{L}_q]$, $[\text{L}_r]$, $[\text{L}_s]$, $[\text{L}_t]$, $[\text{L}_u]$, $[\text{L}_v]$, $[\text{L}_w]$, $[\text{L}_x]$, $[\text{L}_y]$, $[\text{L}_z]$, $[\text{L}_A]$, $[\text{L}_B]$, $[\text{L}_C]$, $[\text{L}_D]$, $[\text{L}_E]$, $[\text{L}_F]$, $[\text{L}_G]$, $[\text{L}_H]$, $[\text{L}_I]$, $[\text{L}_J]$, $[\text{L}_K]$, $[\text{L}_L]$, $[\text{L}_M]$, $[\text{L}_N]$, $[\text{L}_O]$, $[\text{L}_P]$, $[\text{L}_Q]$, $[\text{L}_R]$, $[\text{L}_S]$, $[\text{L}_T]$, $[\text{L}_U]$, $[\text{L}_V]$, $[\text{L}_W]$, $[\text{L}_X]$, $[\text{L}_Y]$, $[\text{L}_Z]$, $[\text{L}_?]$, $[\text{Reflexivity}_1]$, $[\text{Commutativity}]$, $[\text{Commutativity}_1]$, $<\text{tactic}>$, $[\text{tactic}]$, $[[* \stackrel{\text{tactic}}{=} *]]$, $[\mathcal{P}(*, *, *, *)]$, $[\mathcal{P}^*(*, *, *, *)]$, $[\text{po}]$, $[\text{conclude}_1(*, *)]$, $[\text{conclude}_2(*, *, *)]$, $[\text{conclude}_3(*, *, *, *)]$, $[\text{conclude}_4(*, *)]$, $[\text{check}]$, $[[* \stackrel{\circ}{=} *]]$, $[\text{RootVisible}(*)]$, $[\text{A}]$, $[\text{R}]$, $[\text{C}]$, $[\text{T}]$, $[\text{L}]$, $[[*]]$, $[\overline{*}]$, $[a]$, $[b]$, $[c]$, $[d]$, $[e]$, $[f]$, $[g]$, $[h]$, $[i]$, $[j]$, $[k]$, $[l]$, $[m]$, $[n]$, $[o]$, $[p]$, $[q]$, $[r]$, $[s]$, $[t]$, $[u]$, $[v]$, $[w]$, $[x]$, $[y]$, $[z]$, $[(* \equiv * \mid * := *)]$, $[(* \equiv^0 * \mid * := *)]$, $[(* \equiv^1 * \mid * := *)]$, $[(* \equiv^* * \mid * := *)]$, $[\text{Ded}(*, *)]$, $[\text{Ded}_0(*, *)]$, $[\text{Ded}_1(*, *, *)]$, $[\text{Ded}_2(*, *, *)]$, $[\text{Ded}_3(*, *, *, *)]$, $[\text{Ded}_4(*, *, *, *)]$, $[\text{Ded}_4^*(*, *, *, *)]$, $[\text{Ded}_5(*, *, *, *)]$, $[\text{Ded}_6(*, *, *, *)]$, $[\text{Ded}_6^*(*, *, *, *)]$, $[\text{Ded}_7(*)]$, $[\text{Ded}_8(*, *)]$, $[\text{Ded}_8^*(*, *)]$, $[\text{S}]$, $[\text{Neg}]$, $[\text{MP}]$, $[\text{Gen}]$, $[\text{Ded}]$, $[\text{S1}]$, $[\text{S2}]$, $[\text{S3}]$, $[\text{S4}]$, $[\text{S5}]$, $[\text{S6}]$, $[\text{S7}]$, $[\text{S8}]$, $[\text{S9}]$, $[\text{Repetition}]$, $[\text{A1}']$, $[\text{A2}']$, $[\text{A4}']$, $[\text{A5}']$, $[\text{Prop 3.2a}]$, $[\text{Prop 3.2b}]$, $[\text{Prop 3.2c}]$, $[\text{Prop 3.2d}]$, $[\text{Prop 3.2e}_1]$, $[\text{Prop 3.2e}_2]$, $[\text{Prop 3.2e}]$, $[\text{Prop 3.2f}_1]$, $[\text{Prop 3.2f}_2]$, $[\text{Prop 3.2f}]$, $[\text{Prop 3.2g}_1]$, $[\text{Prop 3.2g}_2]$, $[\text{Prop 3.2g}]$, $[\text{Prop 3.2h}_1]$, $[\text{Prop 3.2h}_2]$, $[\text{Prop 3.2h}]$, $[\text{Block}_1(*, *, *, *)]$, $[\text{Block}_2(*)]$; **Preassociative** $[_{-}\{*\}]$, $[/\text{indexintro}(*, *, *, *, *)]$, $[/\text{intro}(*, *, *, *)]$, $[/\text{bothintro}(*, *, *, *, *, *)]$,

Preassociative
 $[“ * ”], [], [(*^t)], [\text{string}(*) + *], [\text{string}(*) ++ *], [$
 $*], [*], [*], [*], [*], [*], [*], [*], [*], [*], [*], [*], [*], [*], [*], [*], [/*],$
 $[0*], [1*], [2*], [3*], [4*], [5*], [6*], [7*], [8*], [9*], [*], [*], [*], [*], [-*], [*], [*], [*], [/*],$
 $[@*], [A*], [B*], [C*], [D*], [E*], [F*], [G*], [H*], [I*], [J*], [K*], [L*], [M*], [N*],$
 $[O*], [P*], [Q*], [R*], [S*], [T*], [U*], [V*], [W*], [X*], [Y*], [Z*], [*], [*], [*], [*], [*], [*],$
 $[^*], [*],$
 $[_*], [*],$
[Preassociative *; *], [Postassociative *; *], [*], [*], [*], [priority * end],
 $\text{newline } *], [\text{macro newline } *];$
Preassociative
 $[* ' *], [* ' *];$
Preassociative
 $[* \cdot *], [* \cdot_0 *];$
Preassociative
 $[* + *], [* +_0 *], [* +_1 *], [* - *], [* -_0 *], [* -_1 *];$
Preassociative
 $[* \cup \{*\}], [* \cup *], [* \setminus \{*\}];$
Postassociative
 $[* \dots *], [* \dots_* *], [* \dots_+ *], [* \underline{+2*} *], [* \dots_* : *], [* \dots_* +2* *];$
Postassociative
 $[*, *];$
Preassociative
 $[* \overset{B}{\approx} *], [* \overset{D}{\approx} *], [* \overset{C}{\approx} *], [* \overset{P}{\approx} *], [* \approx *], [* = *], [* \overset{\rightarrow}{=} *], [* \overset{t}{=} *], [* \overset{t^*}{=} *], [* \overset{r}{=} *],$
 $[* \in_t *], [* \subseteq_T *], [* \overset{T}{=} *], [* \overset{s}{=} *], [* \text{free in } *], [* \text{free in }^* *], [* \text{free for } * \text{ in } *],$
 $[* \text{free for }^* * \text{ in } *], [* \in_c *], [* < *], [* < ' *], [* \leq' *], [* = *], [* \neq *], [*^\text{var}],$
 $[* \#^0 *], [* \#^1 *], [* \#^* *];$
Preassociative
 $[\neg*];$
Preassociative
 $[* \wedge *], [* \wedge \ddot{\wedge} *], [* \wedge \tilde{\wedge} *], [* \wedge_c *];$
Preassociative
 $[* \vee *], [* \parallel *], [* \ddot{\vee} *];$
Postassociative
 $[* \Rightarrow *];$
Postassociative
 $[*: *], [* \text{spy } *], [* \text{!}*];$
Preassociative
 $[* \left\{ \begin{array}{c} * \\ * \end{array} \right\}];$
Preassociative
 $[\lambda * . *], [\Lambda * . *], [\Lambda *], [\text{if } * \text{ then } * \text{ else } *], [\text{let } * = * \text{ in } *], [\text{let } * \coloneqq * \text{ in } *];$

$[* @ *], [* \triangleright *], [* \triangleright\triangleright *], [* \gg *]$

Postassociative

[* ⊥ *], [* ⊤ *], [* i.e. *]

Preassociative

[A*: *]

Postassociative

$$[\ast \oplus \ast]$$

Postassociativ

[*; *] -

Preassociative

```
[check], [[*  $\stackrel{*}{=}$  *]], [RootVisible(*)], [A], [R], [C], [T], [L], [[*]], [*], [a], [b], [c], [d], [e], [f], [g], [h], [i], [j], [k], [l], [m], [n], [o], [p], [q], [r], [s], [t], [u], [v], [w], [x], [y], [z], [ $\langle\ast\equiv\ast|\ast\coloneqq\ast\rangle$ ], [ $\langle\ast\equiv^0\ast|\ast\coloneqq\ast\rangle$ ], [ $\langle\ast\equiv^1\ast|\ast\coloneqq\ast\rangle$ ], [ $\langle\ast\equiv^*\ast|\ast\coloneqq\ast\rangle$ ], [Ded(*,*)], [Ded0(*,*)], [Ded1(*,*,*)], [Ded2(*,*,*)], [Ded3(*,*,*,*)], [Ded4(*,*,*,*)], [Ded4*(*,*,*,*)], [Ded5(*,*,*)], [Ded6(*,*,*,*)], [Ded6*(*,*,*,*)], [Ded7(*)], [Ded8(*,*)], [Ded8*(*,*)], [S], [Neg], [MP], [Gen], [Ded], [S1], [S2], [S3], [S4], [S5], [S6], [S7], [S8], [S9], [Repetition], [A1'], [A2'], [A4'], [A5'], [Prop 3.2a], [Prop 3.2b], [Prop 3.2c], [Prop 3.2d], [Prop 3.2e1], [Prop 3.2e2], [Prop 3.2e], [Prop 3.2f1], [Prop 3.2f2], [Prop 3.2f], [Prop 3.2g1], [Prop 3.2g2], [Prop 3.2g], [Prop 3.2h1], [Prop 3.2h2], [Prop 3.2h], [Block1(*,*,*)], [Block2(*)];
```

Preassociative

```
[*,{*}], [/indexintro(*,*,*,*)], [/intro(*,*,*)], [/bothintro(*,*,*,*,*)],  

[/nameintro(*,*,*,*)], [*'], [*[*]], [*→→*]], [*→*→*]], [*0], [*1], [0b], [-color(*)],  

[-color*(*)], [*H], [*T], [*U], [*h], [*t], [*s], [*c], [*d], [*a], [*C], [*M], [*B], [*r], [*i],  

[*d], [*R], [*0], [*1], [*2], [*3], [*4], [*5], [*6], [*7], [*8], [*9], [*E], [*V], [*C], [*C*],  

[*hide];
```

Preassociative

```
[["*"],[],[(*t

```

Preassociative

[*' *] [*‘ *] [*’]

Proassociative

[*, *] [*, *, *]

Proassociative

Reassociative [re-uh-suh-tuh-tiv] [reh-uh-suh-tuh-tiv] [reh-uh-suh-tuh-tiv] [reh-uh-suh-tuh-tiv] [reh-uh-suh-tuh-tiv] [reh-uh-suh-tuh-tiv]

Breassociation

Postassociative

[*, *];

Preassociative

[\approx^B *], [\approx^D *], [\approx^C *], [\approx^P *], [* \approx *], [* = *], [* \rightarrow *], [* $\stackrel{t}{=}$ *], [* $\stackrel{r}{=}$ *], [* \in_t *], [* \subseteq_T *], [* $\stackrel{T}{=}$ *], [* $\stackrel{s}{=}$ *], [* free in *], [* free in* *], [* free for * in *], [* free for* * in *], [* \in_c *], [* < *], [* <' *], [* \leq' *], [* = *], [* \neq *], [*^{var}], [*#⁰*], [*#¹*], [*#* *];

Preassociative

[\neg *];

Preassociative

[* \wedge *], [* $\ddot{\wedge}$ *], [* $\tilde{\wedge}$ *], [* \wedge_c *];

Preassociative

[* \vee *], [* \parallel *], [* $\ddot{\vee}$ *], [\exists * : *], [\forall * : *], [\forall_{obj} * : *];

Postassociative

[* $\dot{\Rightarrow}$ *], [* \Rightarrow *], [* \Leftrightarrow *];

Postassociative

[*: *], [* spy *], [*!*];

Preassociative

[* { * } *];

Preassociative

[λ * . *], [Λ * . *], [Λ *], [if * then * else *], [let * = * in *], [let * \doteq * in *], [*#*];

Preassociative

[*^I], [*[>]], [*^V], [*⁺], [*⁻], [*^{*}];

Preassociative

[* @ *], [* \triangleright *], [* \triangleright *], [* \gg *], [* \sqsupseteq *];

Postassociative

[* \vdash *], [* \Vdash *], [* i.e. *];

Preassociative

[\forall * : *], [Π * : *];

Postassociative

[* \oplus *];

Postassociative

[* ; *];

Preassociative

[* proves *];

Preassociative

[* proof of * : *], [Line * : * \gg *; *], [Last line * \gg * \square],
[Line * : Premise \gg *; *], [Line * : Side-condition \gg *; *], [Arbitrary \gg *; *],
[Local \gg * = *; *], [Begin *; * : End; *], [Last block line * \gg * ;],
[Arbitrary \gg *; *];

[* , *], [*[*]*];

Preassociative

[*&*], [→];

Preassociative

[**], [* linebreak[4] *], [**]; **End table**