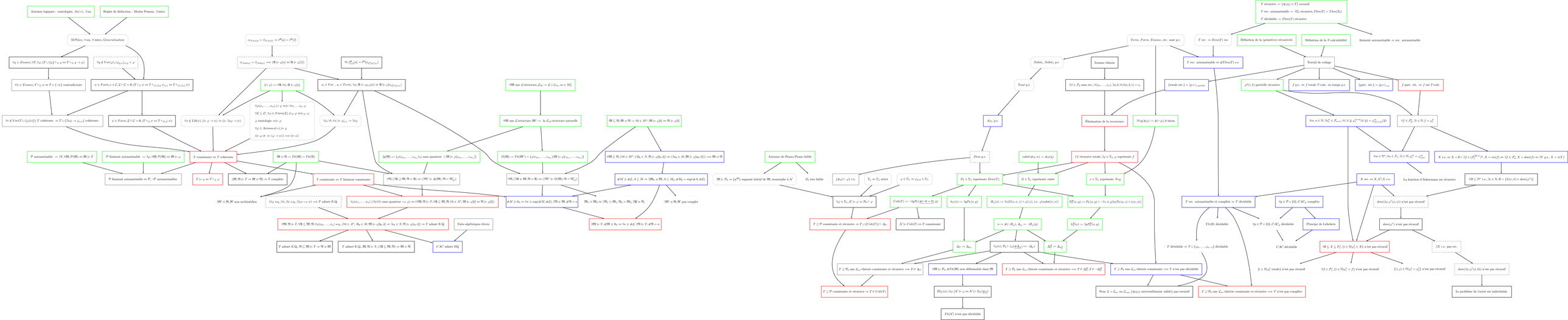
Axiomes logiques : tautologies, $Ax(=)$, $\exists$-ax
Règles de déduction : Modus Ponens, $\exists$-intro
$MPGen$, $\forall$-ax, $\forall$-intro, $Generalisation$
$\forall \chi \in Enonce, \forall \Gamma, \forall \varphi, (\Gamma \cup \{\chi\} \vdash \varphi \Leftrightarrow \Gamma \vdash \chi \to \varphi)$
$\forall \varphi \notin Var(\varphi), (\varphi_{|\varphi})_{\cup \varphi} = \varphi$
$\forall \varphi \in Enonce, \Gamma \vdash \varphi \Leftrightarrow \Gamma \cup \{\neg\varphi\}$ contradictoire
$\psi \in Form, c \in \mathcal{L}, \mathcal{L} \cap \mathcal{L}' = \emptyset, (\Gamma \vdash \varphi \in \Leftrightarrow \Gamma_{\cup \{c\}} \psi_{|c} \Leftrightarrow \Gamma_{\cup \{c\}} \psi)$
$\forall \psi \notin Var(\varphi), \mathcal{L} \cap \mathcal{L}' = \emptyset, (\Gamma \vdash \varphi \Leftrightarrow \Gamma \vdash \varphi_{\cup \mathcal{L}'} \psi)$
$\forall \psi \notin Lib(\psi), (\models \varphi \to \psi) \Rightarrow (\models \exists x \varphi \to \psi)$
$\forall \varphi, \forall \Gamma, \forall x, \models \varphi_{|x} \to \exists x \varphi$
$\mathbb{P}$ axiomatisable $:= \exists \Gamma, \forall \mathbb{M}, \mathbb{P}(\mathbb{M}) \Leftrightarrow \mathbb{M} \models \Gamma$
$\mathbb{P}$ finiment axiomatisable $:= \exists \varphi, \forall \mathbb{M}, \mathbb{P}(\mathbb{M}) \Leftrightarrow \mathbb{M} \models \varphi$
$\mathbb{P}$ finiment axiomatisable $\Leftrightarrow \mathbb{P}, \neg\mathbb{P}$ axiomatisables
T consistante $\Leftrightarrow T$ cohérente
$T \models \varphi \Leftrightarrow T \vdash \varphi$
$(\mathbb{M}, \mathbb{N}) \vDash T \Rightarrow (\mathbb{M} \in \mathbb{N}) \Rightarrow T$ complète
$\mathbb{M} \in \mathbb{N} \Rightarrow Th(\mathbb{M}) = Th(\mathbb{N})$
$\exists \mathbb{M}' \equiv \mathbb{N}, \mathbb{M}'$ non archimédien
T consistante $\Leftrightarrow T$ finiment consistante
$\forall \mathbb{M}, (\exists \mathbb{B} \supseteq \mathbb{M}, \mathbb{N} \Rightarrow \mathbb{B}) \Leftrightarrow (\exists \mathbb{C} \vdash \Delta_1(\mathbb{M}), \mathbb{N} = \mathbb{N}'_{|\mathbb{C}})$
$\forall \mathbb{M}, (\exists \mathbb{B} \supseteq \mathbb{M}, \mathbb{N} \Rightarrow \mathbb{B}) \Leftrightarrow (\exists \mathbb{C} \vdash D(\mathbb{M}), \mathbb{N} = \mathbb{N}'_{|\mathbb{C}})$
$\mathbb{M} \equiv_{\forall \exists} \mathbb{N} \Rightarrow \exists \mathbb{B}, \mathbb{M} \preceq \mathbb{B} \succeq \mathbb{N}$
$\mathbb{M} \preceq \mathbb{N}$ pas complet
$\mathbb{M} \preceq \mathbb{N}, \mathbb{M}' \equiv \mathbb{M}, \mathbb{M}' \preceq \mathbb{N}$
$\mathbb{M} \preceq \mathbb{N}$ pas complet
$\mathbb{M} \preceq \mathbb{N}$ pas complet
$\mathbb{M} \preceq \mathbb{N}$ pas complet