Aczel Model of Object Theory

$\mathbf{A}$ = Abstract Objects = $\wp(\mathbf{P})$

$\mathbf{P}$ = Properties = $\wp(\mathbf{U})$
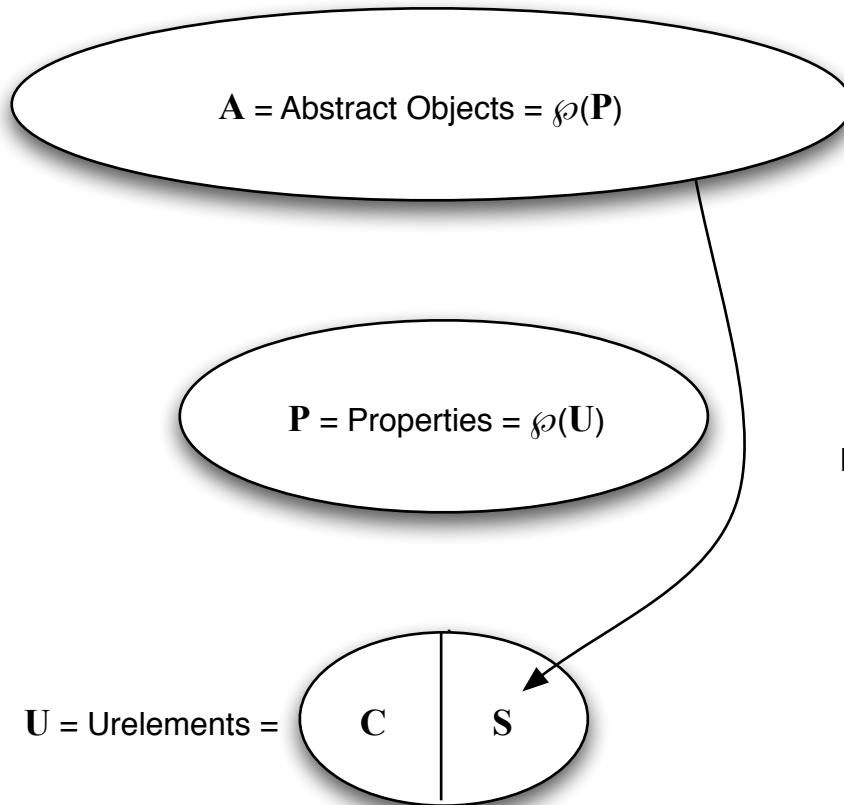
$\mathbf{U}$ = Urelements = $\boxed{\ \mathbf{C}\ |\ \mathbf{S}\ }$

Define a mapping:
$\|a\| : \mathbf{A} \rightarrow \mathbf{S}$

Domain $\mathbf{D} = \mathbf{A} \cup \mathbf{C}$

Define for $x \in \mathbf{D}$, $|x| = \begin{cases} x, & \text{when } x \in \mathbf{C} \\ \|x\|, & \text{when } x \in \mathbf{A} \end{cases}$

Define, for assignment to variables g,

$g \vDash Fx$ iff $|g(x)| \in g(F)$

$g \vDash xF$ iff $g(F) \in g(x)$

In this model, the following are true:

$\exists x\, (A!\,x\ \&\ \forall F\, (xF \equiv \varphi))$

$\exists F\, \forall x\, (Fx \equiv \varphi)$, φ has no encoding subformulas