

FOL, ZFC, NGB and Prolog

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- *From:* "Tom" <tkorna@xxxxx>
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Hello,

I have finally grasped the dichotomy of the declarative (FOL, i.e. math) and imperative (CS) knowledge, and concluded that e.g. Prolog is, merely, FOL in executable notation. Having thought that, I made my first steps towards what I thought to be "the easiest", i.e. Peano axioms. Without ample skill in pattern matching to do the transcription myself, I browsed the web and obtained:

```
number(zero).  
number(X) :-  
X = next(Y),  
number(Y).
```

```
less(0, X):-X=0.  
less(X, next(X)).  
less(X, Z) :-  
Z = next(Y),  
less(X, Y).  
less(next(X),X):-fail.
```

(Dear me, one can formalize PM within that!)

<http://www.csci.csusb.edu/dick/cs320/prolog/peano.plg>

Would someone be kind enough as to point me to a web resource containing the transcription of ZFC, NGB (and maybe even Frege's Grundlanden) into Prolog's syntax? Of course, there are the great Metamath Proof Explorer and DCProof, still, I am only a beginner.

Thank You very much indeed.

Kindest regards,
Tom

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