A Neural Approach for Detecting Morphological Analogies
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A Neural Approach for Detecting Morphological Analogies
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### Baselines

1 **Classifier:**
   - Lepage Classifier [3]
     - matrix-based approach to align characters between words and find common sub-words

2 **Solvers:**
   - find missing $x$ making $A : B :: C : x$ valid; if $x$ is in top 1 or 10 solutions, valid analogy
   - Komogorov Complexity [6]:
     - minimize complexity of $x$ such that $B :: f(A)$ and $f(C)$ is computable:
     - $x = f(C)$
   - Alea [5]:
     - random permutations of the characters of $B$ not in $A$ and those of $C$ (Monte-Carlo method)

### Perspectives
- explore transferability [1]
- balancing data
- regression (analogy solving)
- qualitative analysis of embedding model
- other domains (images, text, explanations, etc.)

### Bibliography