

Reading nonwords

Described as a big problem for PDP models (SM89)

How do you evaluate simulated pronunciations as there are no attested pronunciations for nonwords ?

- DRC : respecting GPC rules
- PDP : phonemic sequence contains subcomponents which pronunciation can be found in real words

And experimental data ?

Reading nonwords

- **Pritchard (2012)**

Reading 412 nonword by 47 australian participants

DRC > 73,5% of correspondance

CDP+ adjusted > 20% of correspondance

But all DRC simulated pronunciations are regular !

Table 2

Classification of Pronunciations Given by Experiment Participants and by Each Model

Classification	Experiment participants	DRC	CDP+	CDP.50
Regular	53.0	100.0	0.0	9.0
Vowel difference	20.3	0.0	36.7	35.7
Dropped phoneme	1.2	0.0	11.4	5.1
Extra phoneme	4.0	0.0	7.3	5.1
s/z coda difference	4.0	0.0	10.9	11.9
Consonant difference	5.1	0.0	16.7	20.1
Other	12.4	0.0	17.0	13.1