

Lexical and sublexical effects on visual word recognition in Greek:
Comparing the Dual Route Cascaded (DRC) model to human behavior

ONLINE SUPPLEMENTAL MATERIALS

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List of parameter values for Greek DRC

The values of the following parameters were adjusted using a process of trial-and-error until the model produced no errors on any vocabulary word, or on any of a set of 1000 nonwords, with the minimum reading phonology set to 0.9 to simulate reading at leisure:

Parameter	Value
General Parameters	
ActivationRate	0.2
FrequencyScale	0.05
MinReadingPhonology	0.4
FeatureLevel Parameters	
FeatureLetterExcitation	0.005
FeatureLetterInhibition	0.15
Letter Level Parameters	
LetterOrthlexExcitation	0.02
LetterOrthlexInhibition	0.74
LetterLateralInhibition	0
LetterNoise	0
LetterDecay	0
LetterUnsupportedDecay	0
Orthographic Lexicon (Orthlex)	
OrthlexPhonlexExcitation	0.3
OrthlexPhonlexInhibition	0
OrthlexLetterExcitation	0.2
OrthlexLetterInhibition	0
OrthlexLateralInhibition	0.35
OrthlexNoise	0
OrthlexDecay	0
OrthlexUnsupportedDecay	0
OrthlexThreshold	0
Phonological Lexicon (Phonlex)	
PhonlexPhonemeExcitation	0.09
PhonlexPhonemeInhibition	0
PhonlexOrthlexExcitation	0.25
PhonlexOrthlexInhibition	0
PhonlexStressExcitation	0
PhonlexStressInhibition	0
PhonlexLateralInhibition	0.35
PhonlexNoise	0
PhonlexDecay	0
PhonlexUnsupportedDecay	0
PhonlexThreshold	0
Phoneme Level Parameters	

PhonemePhonlexExcitation	0.02
PhonemePhonlexInhibition	0.16
PhonemeLateralInhibition	0.147
PhonemeNoise	0
PhonemeDecay	0
PhonemeUnsupportedDecay	0.05
PhonemeThreshold	0
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GPC Route Parameters	
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GPCPhonemeExcitation	0.051
GPCRhymePhonemeExcitation	0
GPCStressExcitation	0
GPCInputThreshold	0
GPCOutputThreshold	0
GPCCriticalPhonology	0.05
GPCOnset	26
GPCOnsetThreshold	0
GPCNoise	0
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Stress Level Parameters	
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StressPhonlexExcitation	0
StressPhonlexInhibition	0
StressLateralInhibition	0
StressNoise	0
StressDecay	0
StressUnsupportedDecay	0
StressThreshold	0
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