## Separate (all data): cognates element vs phonotactics element , WesternArrarnta....• ...Kartujarra- ₋ - Kartujarra..... ·Warnman-·····Yulparija﹑্ --Warnman..... ------Wangkatja ········· ······Wangkatja-····PintupiLuritja----ُـــ----PintupiLuritja...... •·····Ngaanyatjarra----------Ngaanyatjarra..... `Yulparija..... -----Kukatja- ---Kukatja..... •···WesternArrarnta<sup>√</sup> ----Nyangumarta--------Nyangumarta------······Karajarri-----• 0.34 ·······MangalaMcK------MangalaMcK······ ·····Warlpiri--.....Warlmanpa-0.91 --Warlmanpa..... ······Bilinarra-----Bilinarra·········· ····Gurindji------• ·······Ngarinyman-----• 0.97 .....Ngardily----\_\_\_-WalmajarriHR-----•----WalmajarriHR----- Ngardily ..... ······Wirangu-----• •---Adnyamathanha---------Adnyamathanha--•-······Nukunu-----• ···Mirniny------·······Ngadjumaya----------Ngadjumaya·······• ······Jiwarli--------Jiwarli ·······--------·····Warriyangga----------------Warriyangga····· ·····Tharrgari֊、্ \_\_-Thalanyji-----·····Thalanyji- -\_ - - Payungu ······· ----Payungu-0.5 -----Purduna-------0.74 •----Martuthunira-\_\_-Kariyarra..... - Martuthunira..... .....Yindjibarndi-·····Kariyarra---Yindjibarndi------• ----Nyamal-\_Kurrama·····•• Ngarluma..... Ngarluma---Nyamal-----0.96

······Panyjima--------Panyjima··············

•·····Badimaya------Badimaya······ •·····Wajarri------Wajarri

-Ngarla------

····Kurrama-