

Password Differences Based on Language and Testing of Memory Recall

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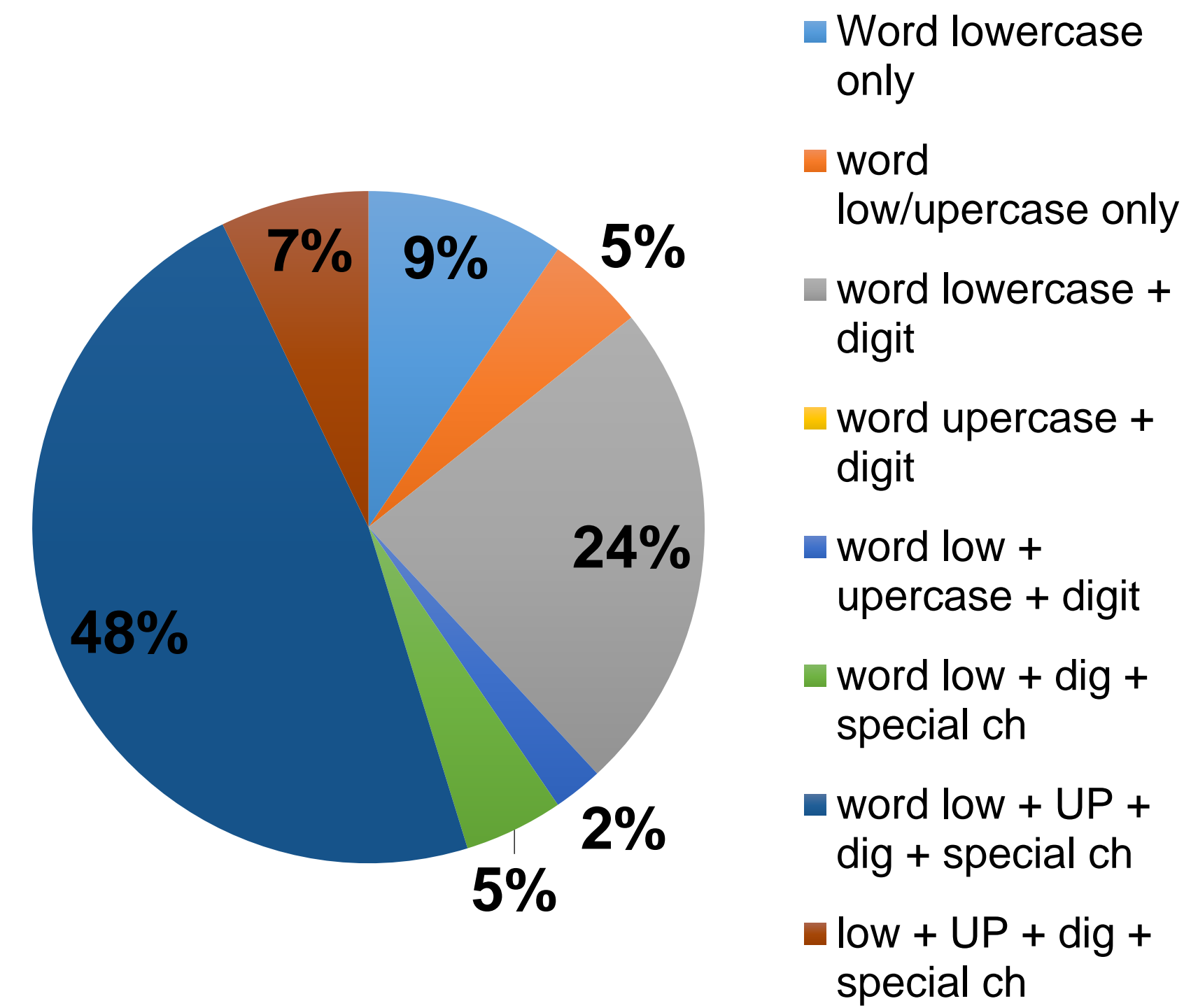
Questions

Do users with different native languages have different password creation habits?
Can users be guided to create longer passwords when given rules and/or visual cues?

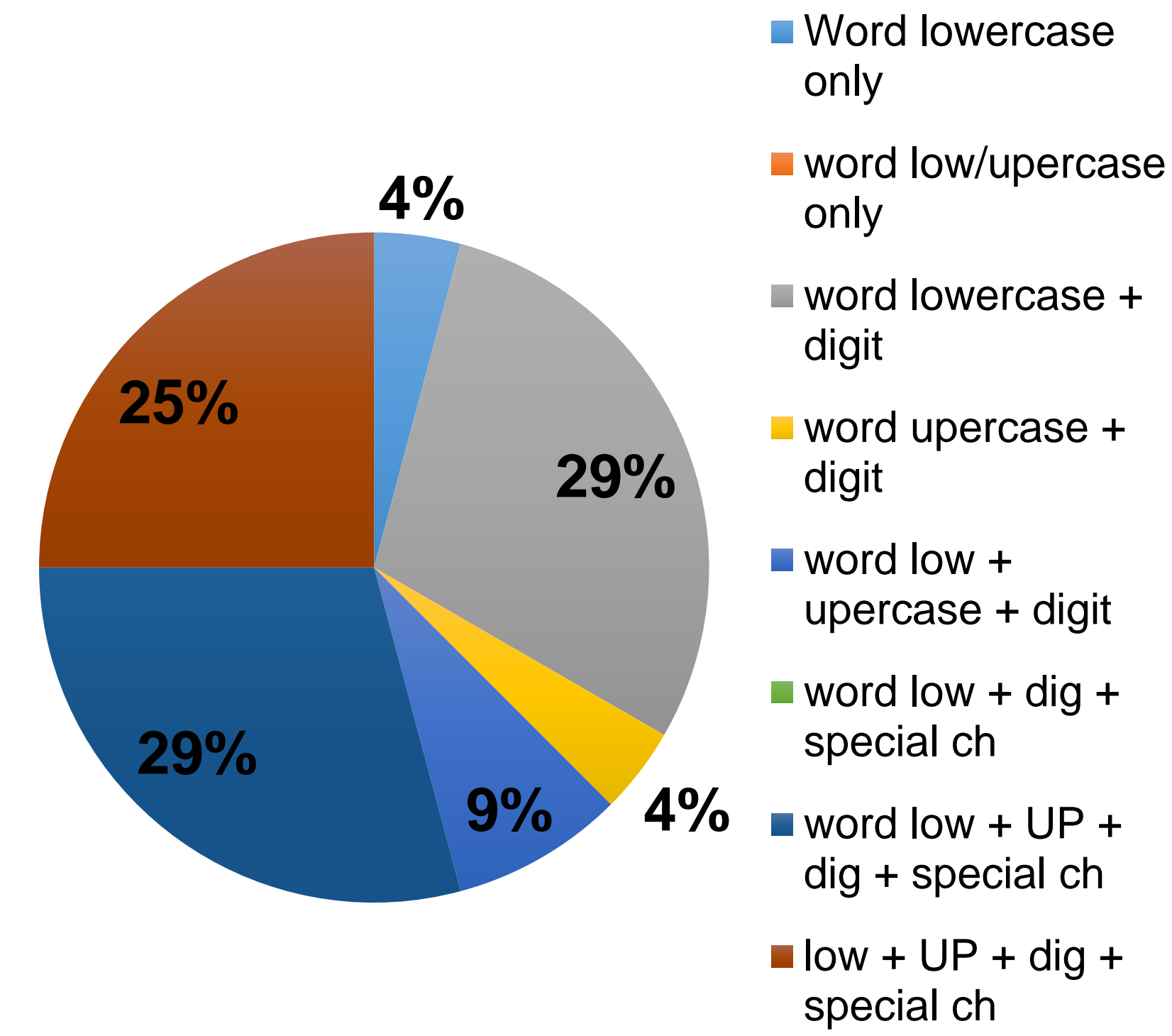
Design/Method

Created mock account creation schemes to have users create a profile.
Separated into four groups by native language.
Four groups were: NRNP (no rules, no prompt), NRP (no rules, prompt given), RNP (rules, no prompt), and RP (rule and prompt)

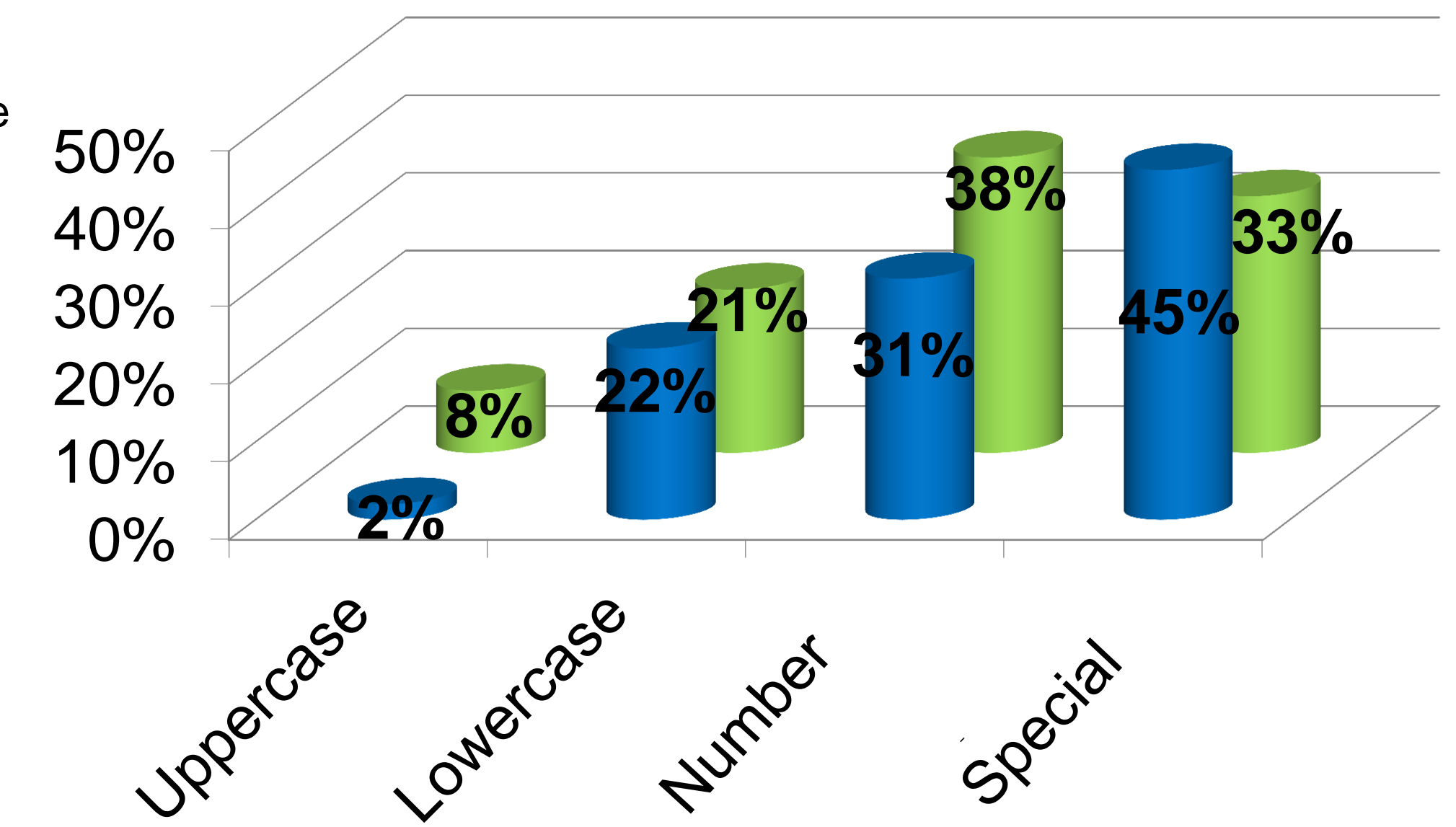
English Speakers



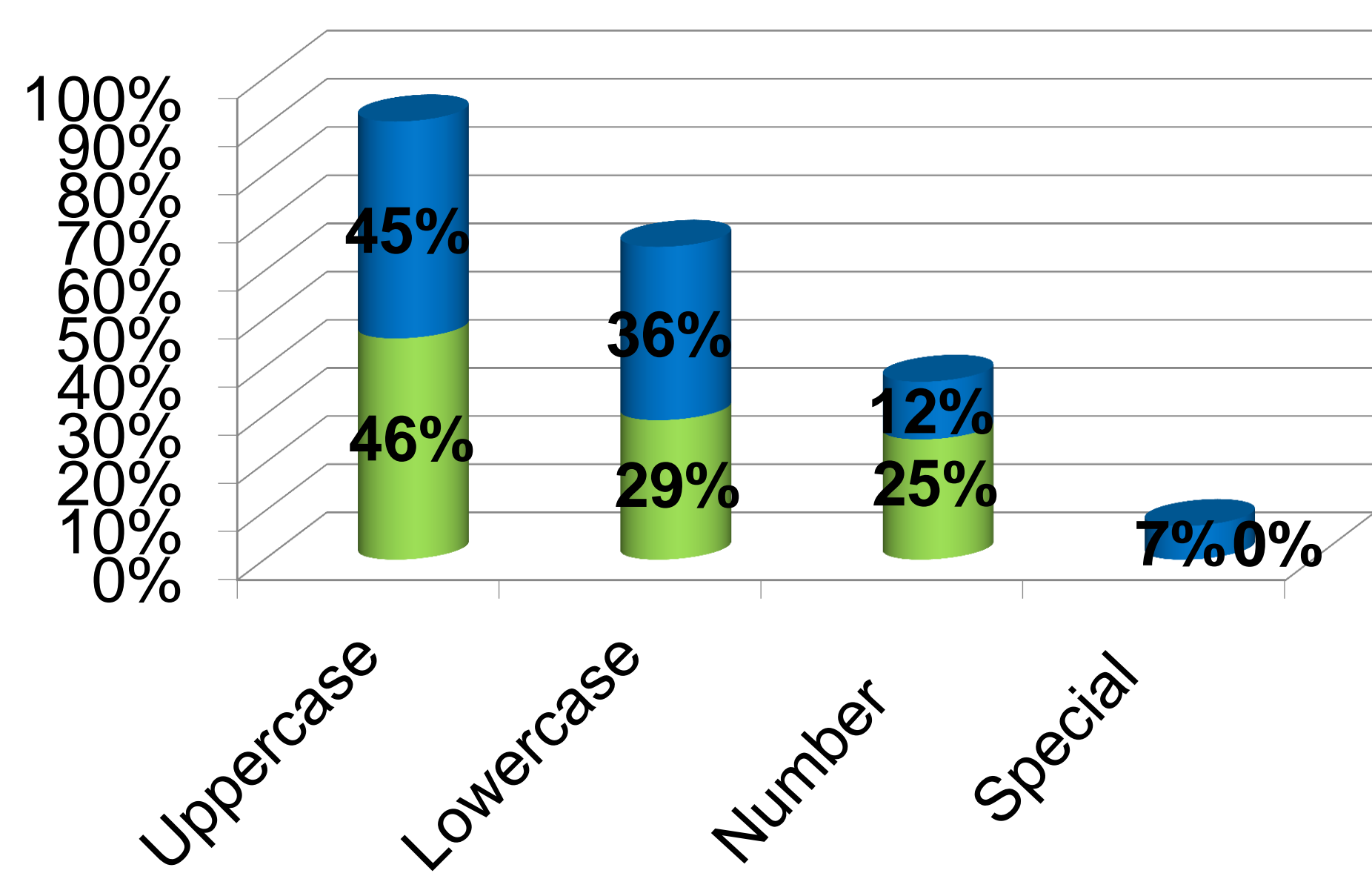
Spanish Speakers



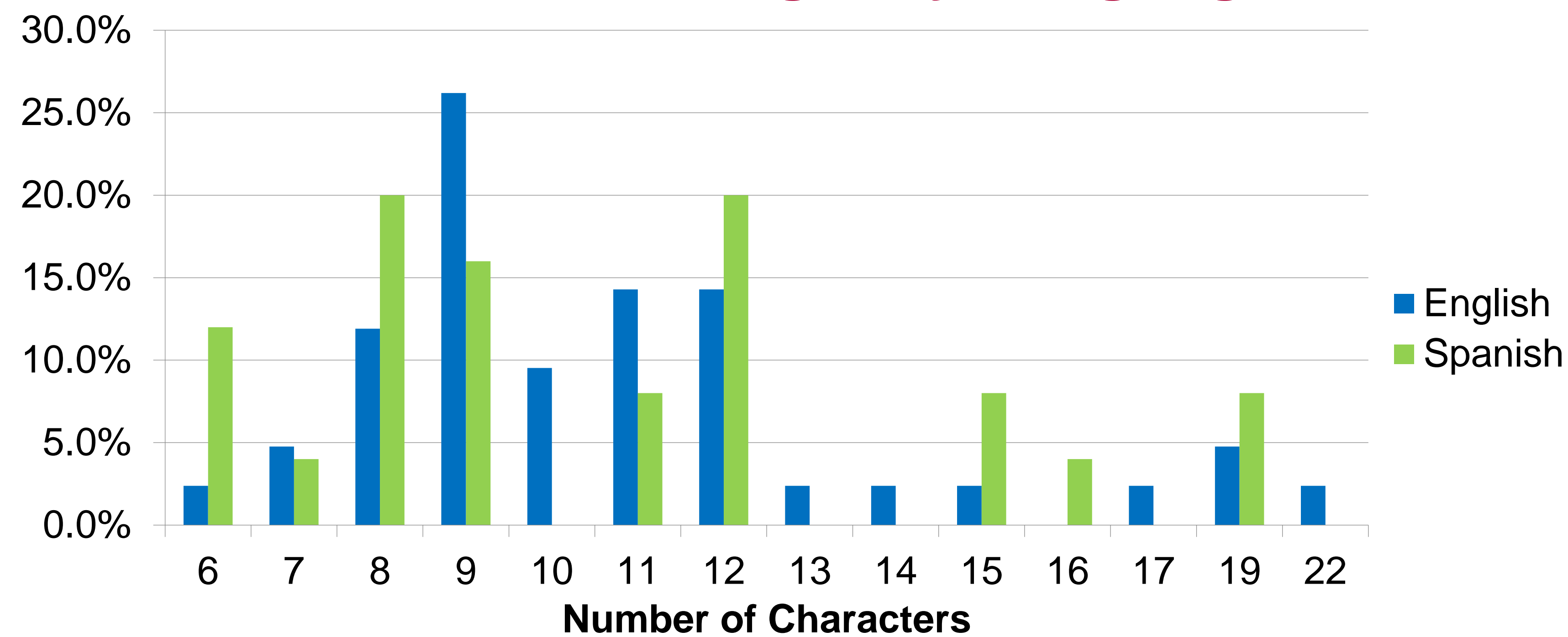
Last Character Usage



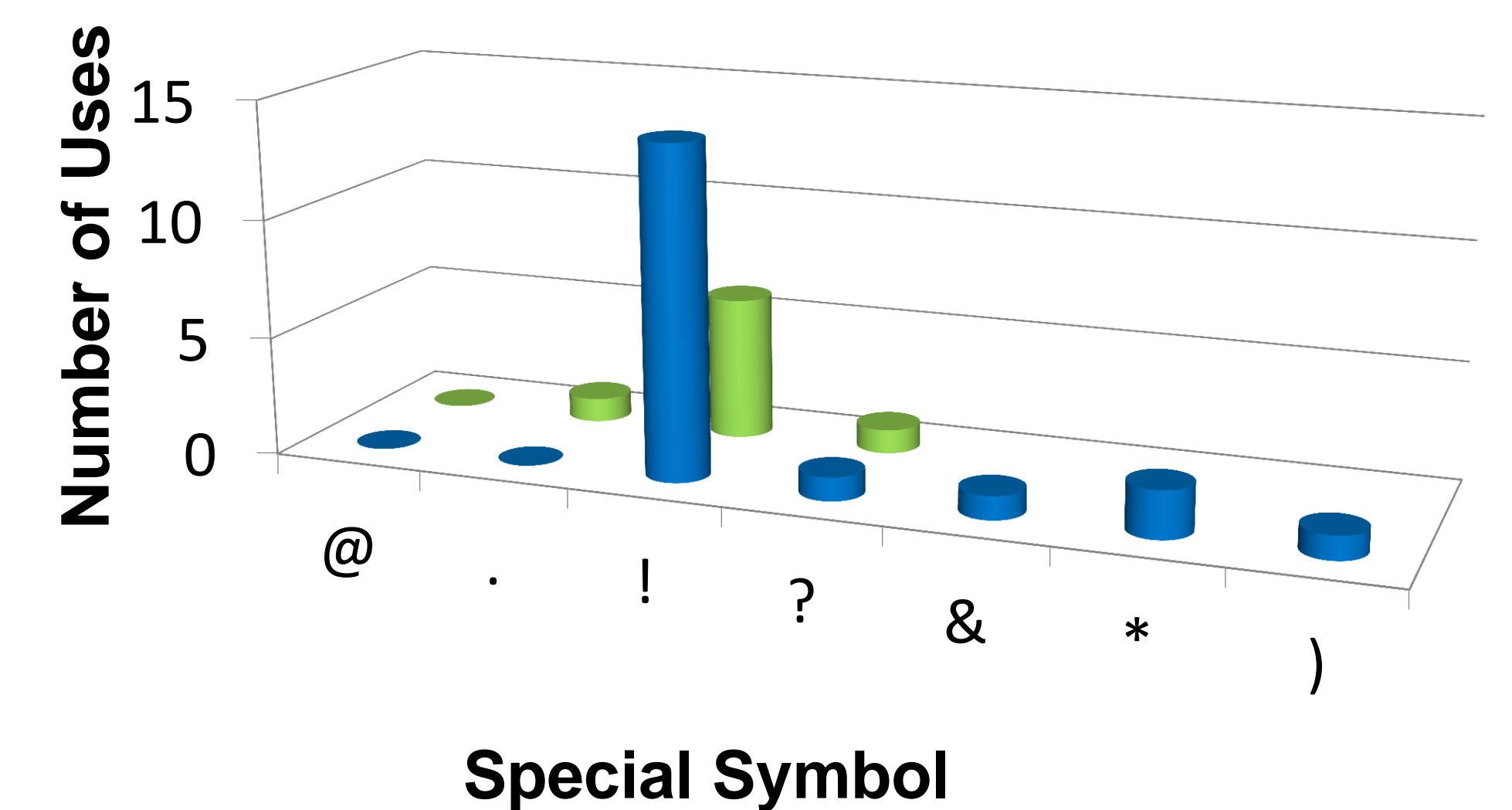
First Character Usage



Passwords Length by Language



Last Character Usage (Special Symbol)



References

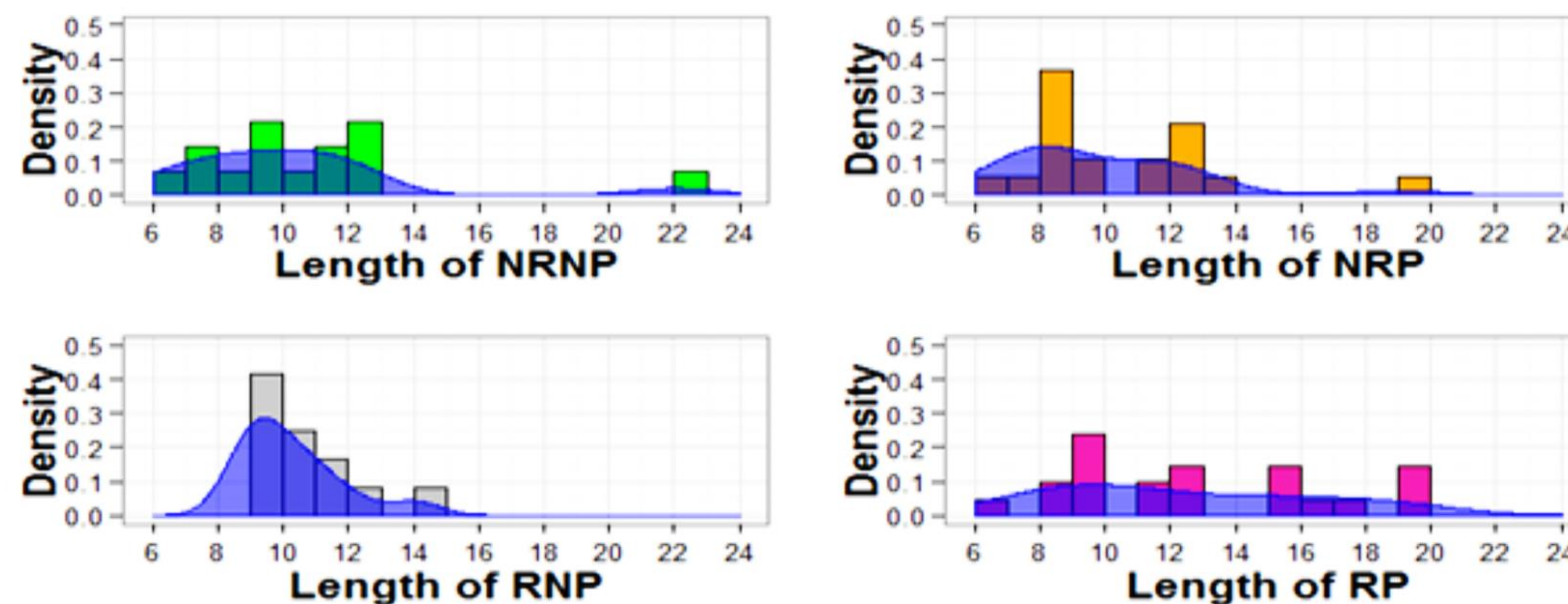
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Acknowledgements

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Password Length by Groups



Discussion

Native English speakers created passwords containing dictionary words more frequently than Spanish speakers.

Over 70% of created passwords were between 6 and 12 characters in length.

Visual cues and rules increased length of passwords.