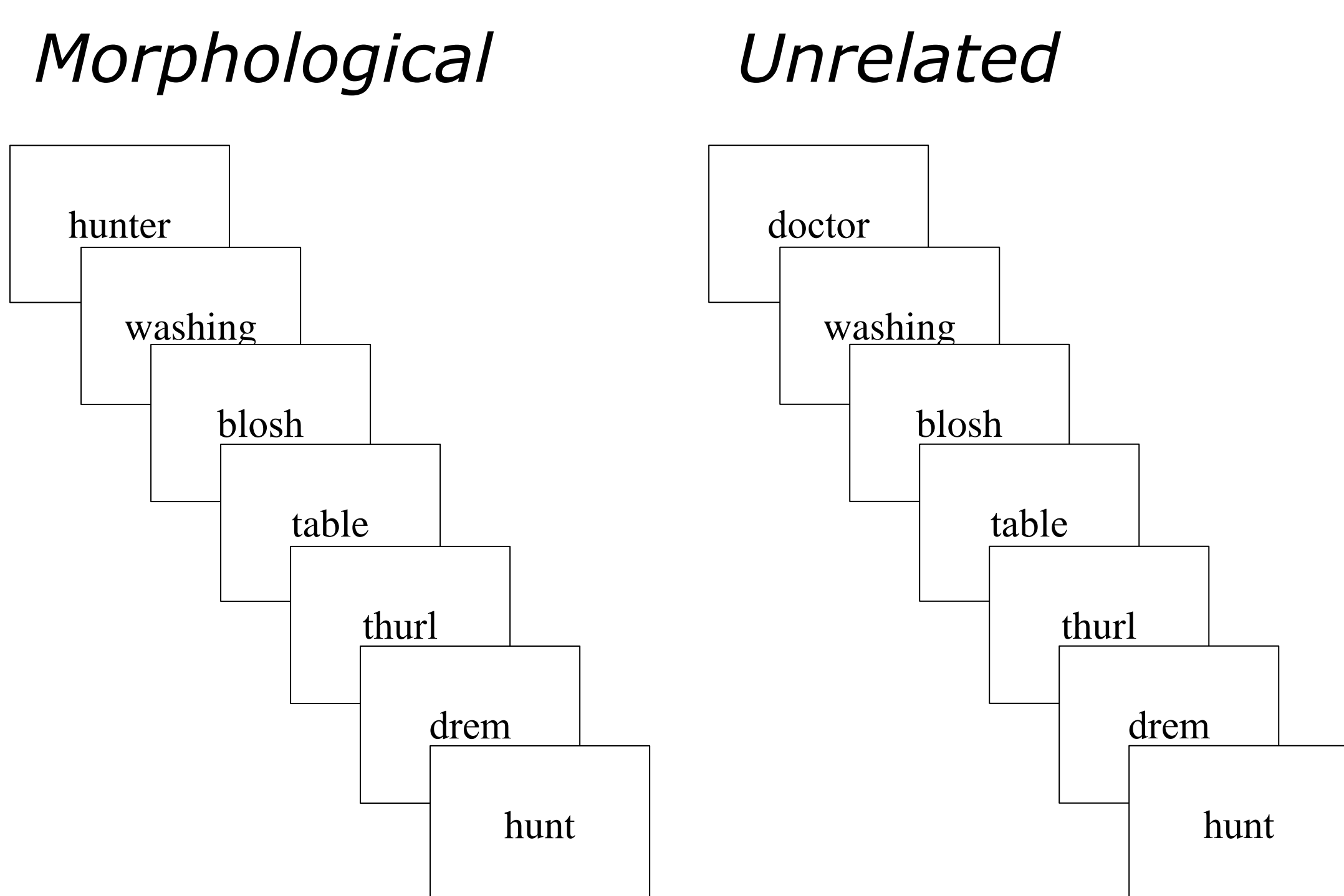


Background: Long-lag priming



- Facilitation almost always occurs when prime and target share a morpheme – even if the form of the morpheme is different

Same form:

hunter ... *hunt* (tons of studies)

Different forms:

assumption ... *assume* (Fowler et al., 1985)

sleep ... *slept* (Downie et al., 1985)

rai[d]er ... *rai[r]er* (McLennan et al., 2003, 2005)

[kuzin] ... *[kuzẽ]* (Kouider & Dupoux, 2009)

- But! These cases all have very *similar* forms
- What about morphological priming with minimal form overlap (like *think* ... *thought*)?

Previous studies

Mixed findings

- Priming: Stanners et al. (1979), Marslen-Wilson & Tyler (1998)
- No priming: Napps (1989), Emmorey (1991), Stockall (2004)

Other limitations:

- Form overlap still sometimes high
- Some relatively short lags (e.g. 6 trials)
- Past-tense primes with present-tense targets (see Stockall & Marantz, 2006)

Methods

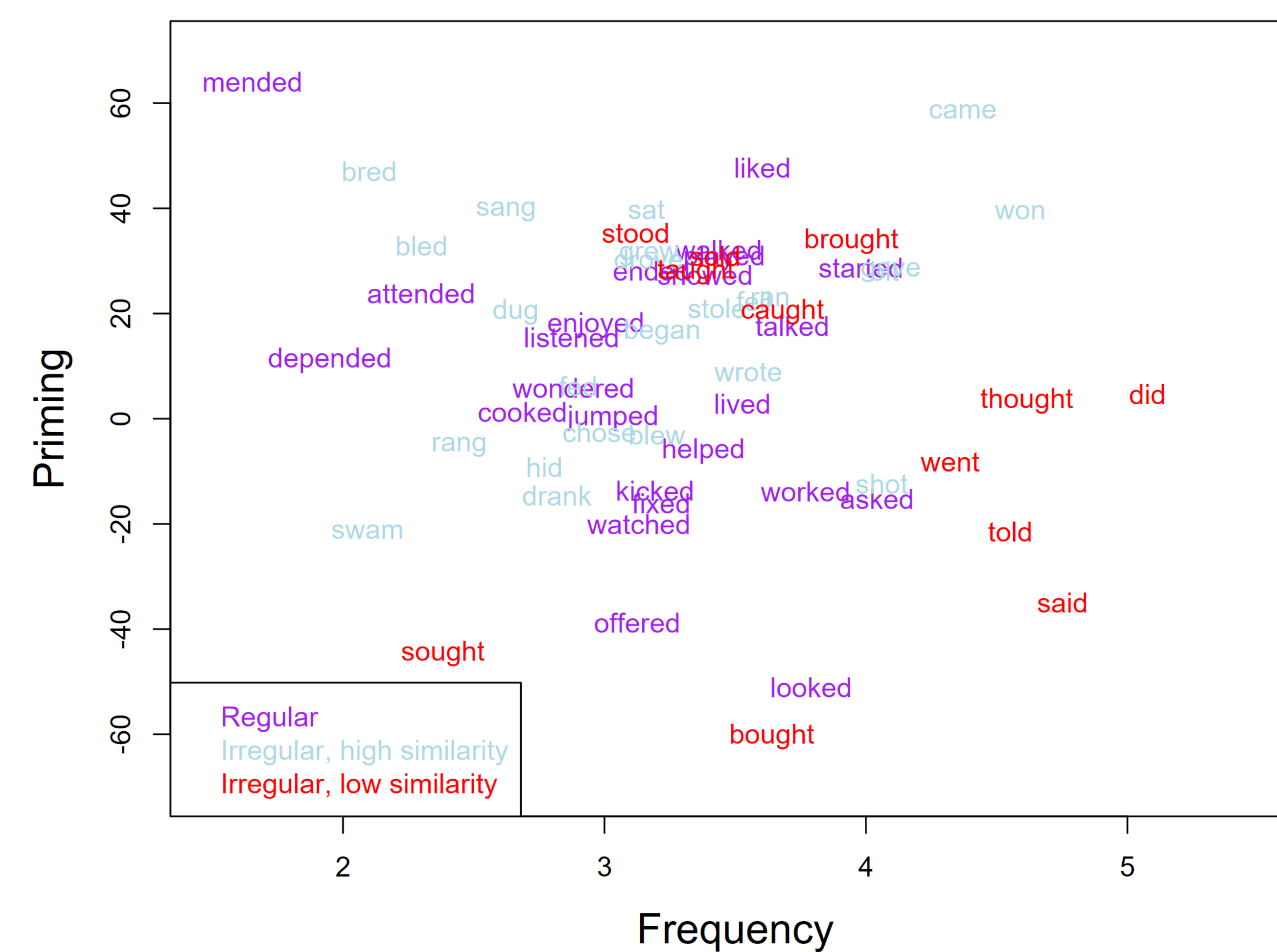
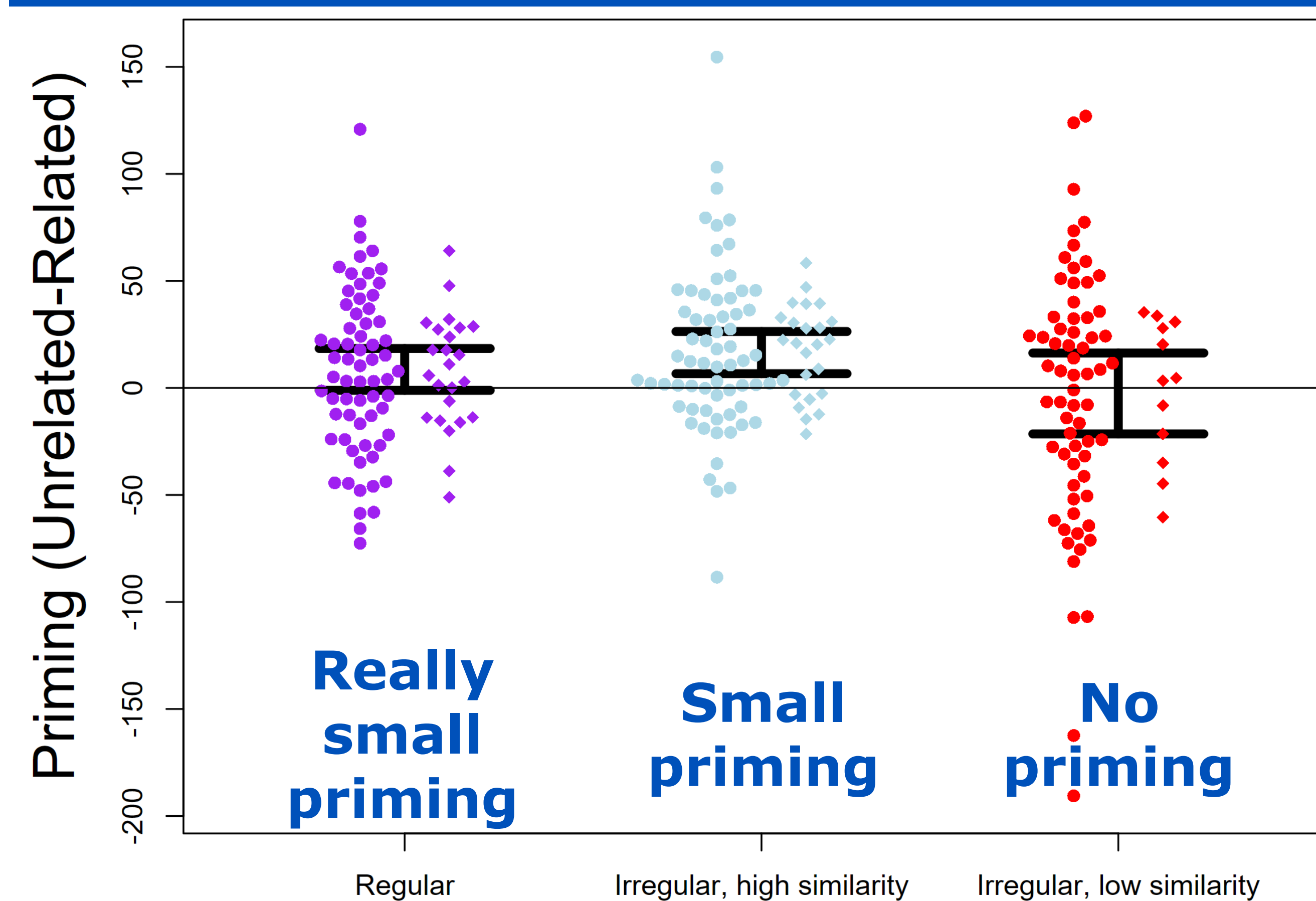
Stimuli and mean log frequency:

| | Related | Unrelated |
|--------------------------------------|-----------------------|----------------------|
| Regular (N=24) [mean log freq: 3.2] | <i>kick...kicked</i> | <i>ride...kicked</i> |
| Irregular, high overlap (N=24) [3.2] | <i>win...won</i> | <i>fail...won</i> |
| Irregular, low overlap (N=12) [3.9] | <i>teach...taught</i> | <i>quit...taught</i> |
| Noun fillers (120) | <i>carrot</i> | |
| Pseudoword foils (240) | <i>glod</i> | |

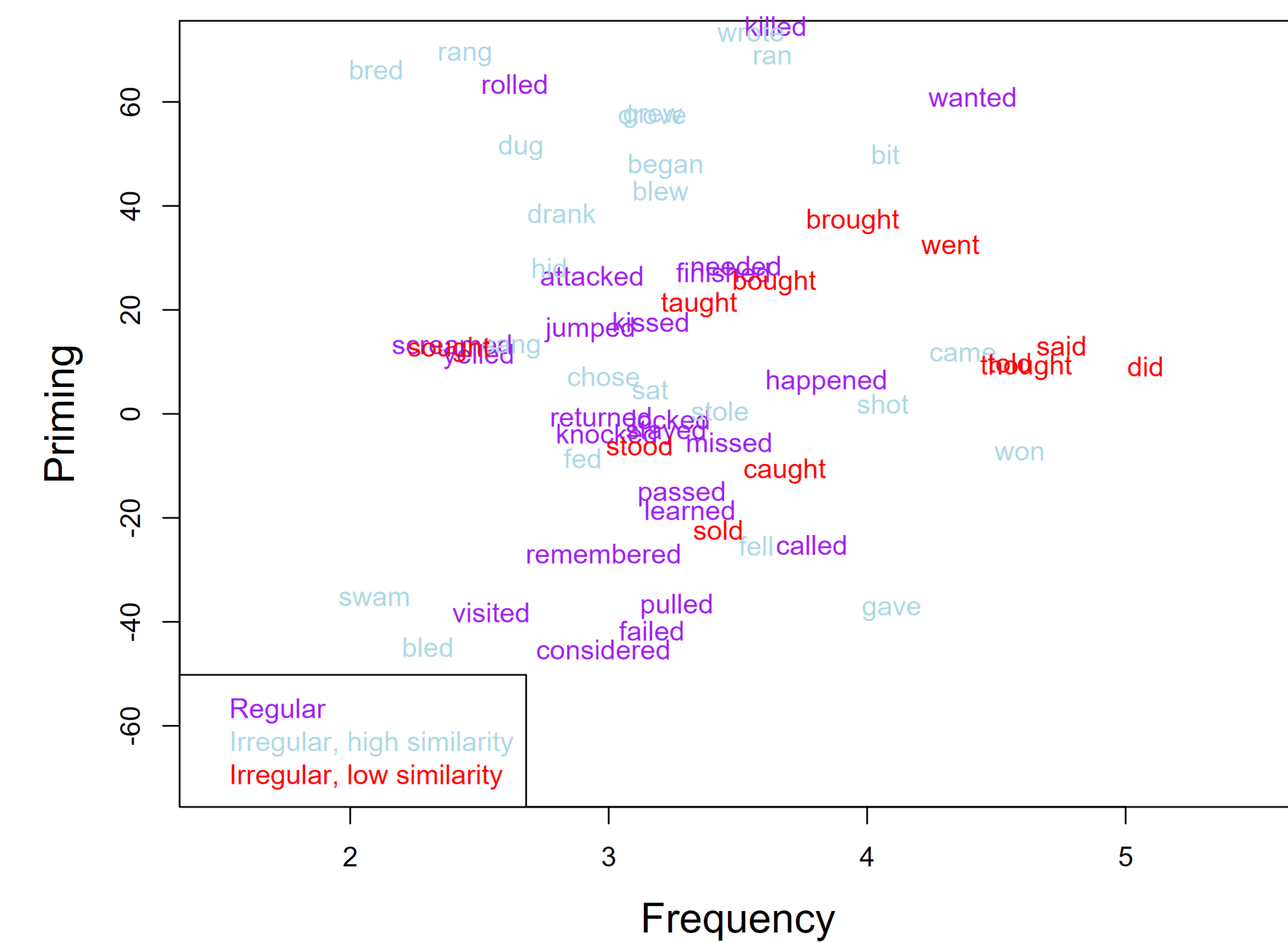
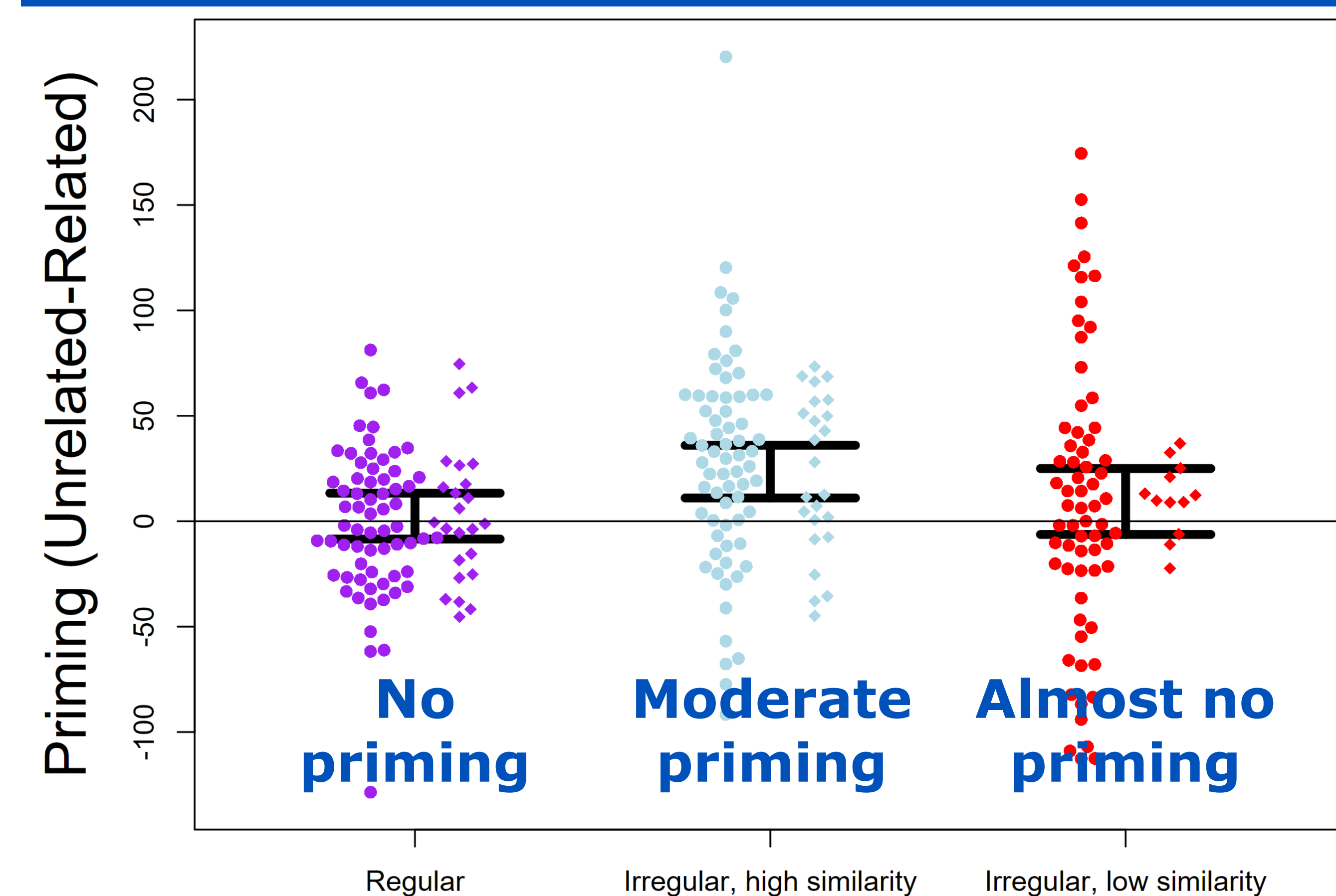
- Pre-registration: <https://osf.io/597kn>

- Each verb target was presented with a related or an unrelated prime (balanced randomly across participants)
- Similarity rating criteria adapted from Stockall (2004) Lag of 20-58 trials (mean: 39) between prime and target

Results (N=65 L1 English)



Replication (N=68 L1 English)



Conclusions

- Long-lag morphological priming doesn't occur without sufficient form overlap.
 - (Consistent with Bowers & Kouider, 2003)
- Why didn't we get priming for regular morphology? Maybe because of affix stripping (Stockall & Marantz, 2006)