

## Background

- Music can make you feel good. BUT... not always!
- Recent research has begun to focus on the concept of maladaptive/unhealthy music listening and its relationship to personality.
- HOWEVER, there is inconsistency in definitions and measures of maladaptive music listening and its relationship to personality.

## Objectives

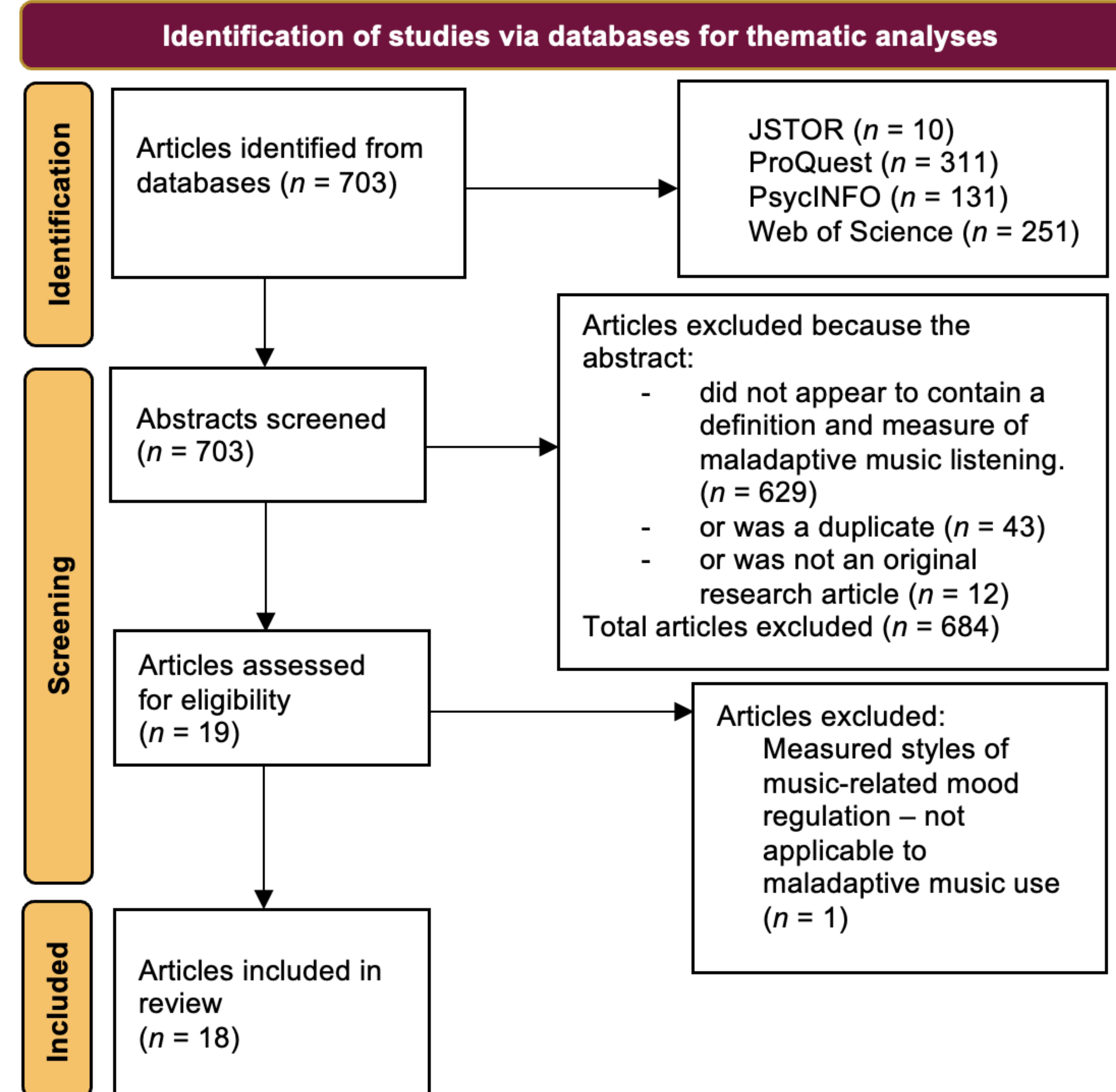
Determine:

- a valid **definition** of maladaptive music listening.
- the most frequently employed **measures** of maladaptive music listening.
- the robustness of currently proposed **associations** between maladaptive music listening and Big Five personality traits.

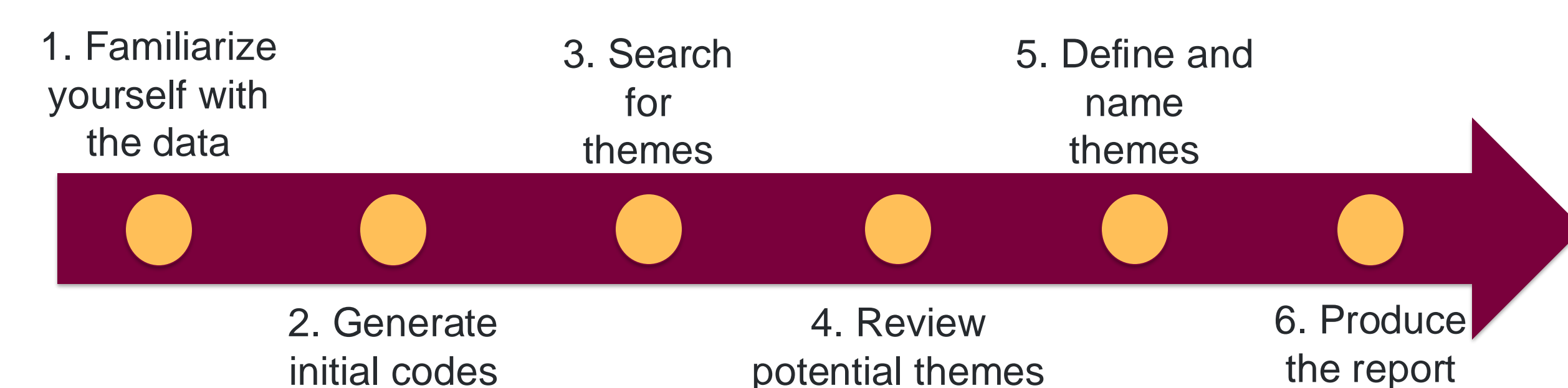
**Overarching goal:** synthesize existing literature and create useful guidelines for future research.

## Methods

- Guided by the standards of the Preferred Reporting Items for Systematic Review and Meta-Analysis (PRISMA) Statement (Page et al., 2021).
- Inclusion criteria**
  - Peer-reviewed original research, published after 2000, in English
  - A definition and measure of maladaptive music listening (**thematic analyses**)
  - And an effect size measure of big five personality trait(s) (**meta-analysis**)



**Phases of thematic analyses** (following Braun & Clarke, 2006)

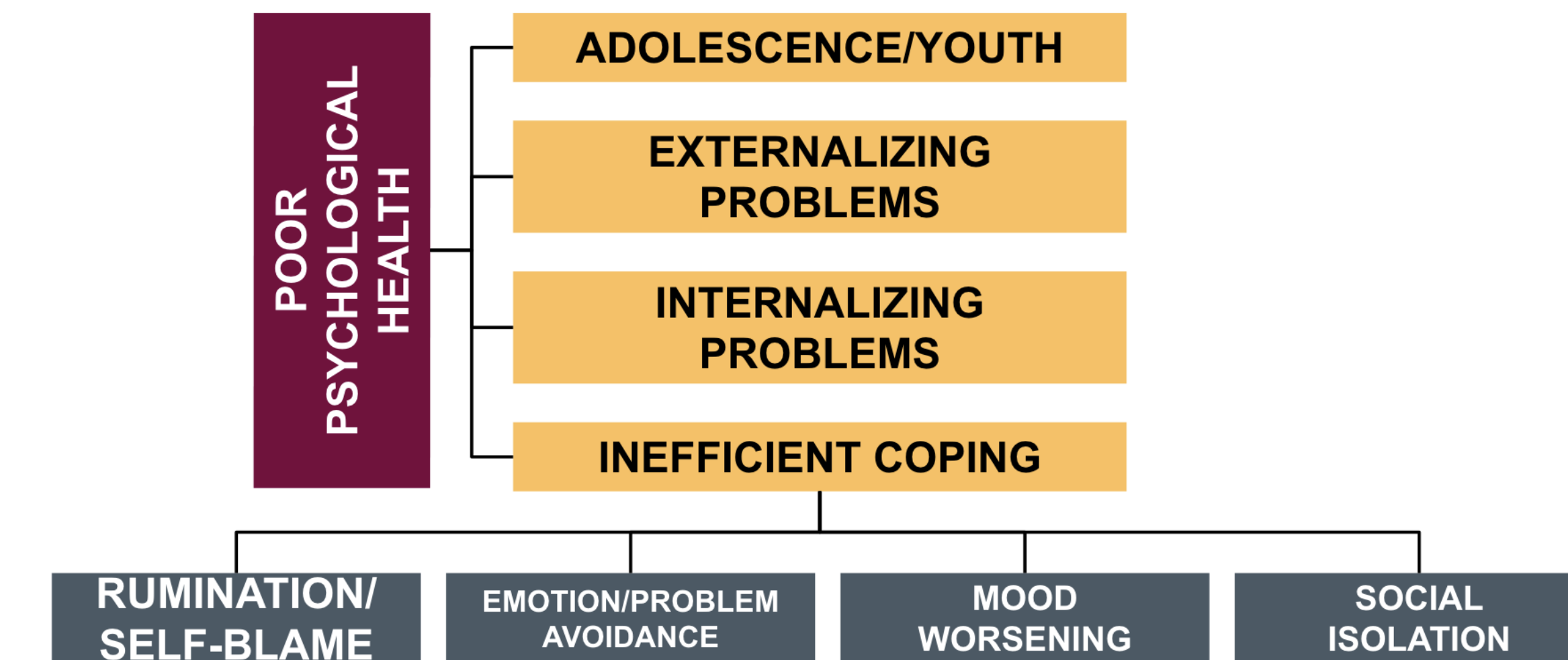


## Meta-analysis: relationship between Big Five personality traits and MML

- Converted  $r$  values to Fisher's  $Z$ . Studies which included multiple correlation values related to MML were aggregated.
- Random-effects meta-analysis model (MML effect size ~ neuroticism + random effect for study) and Fisher's  $Z$  for effect measurement.

## Results

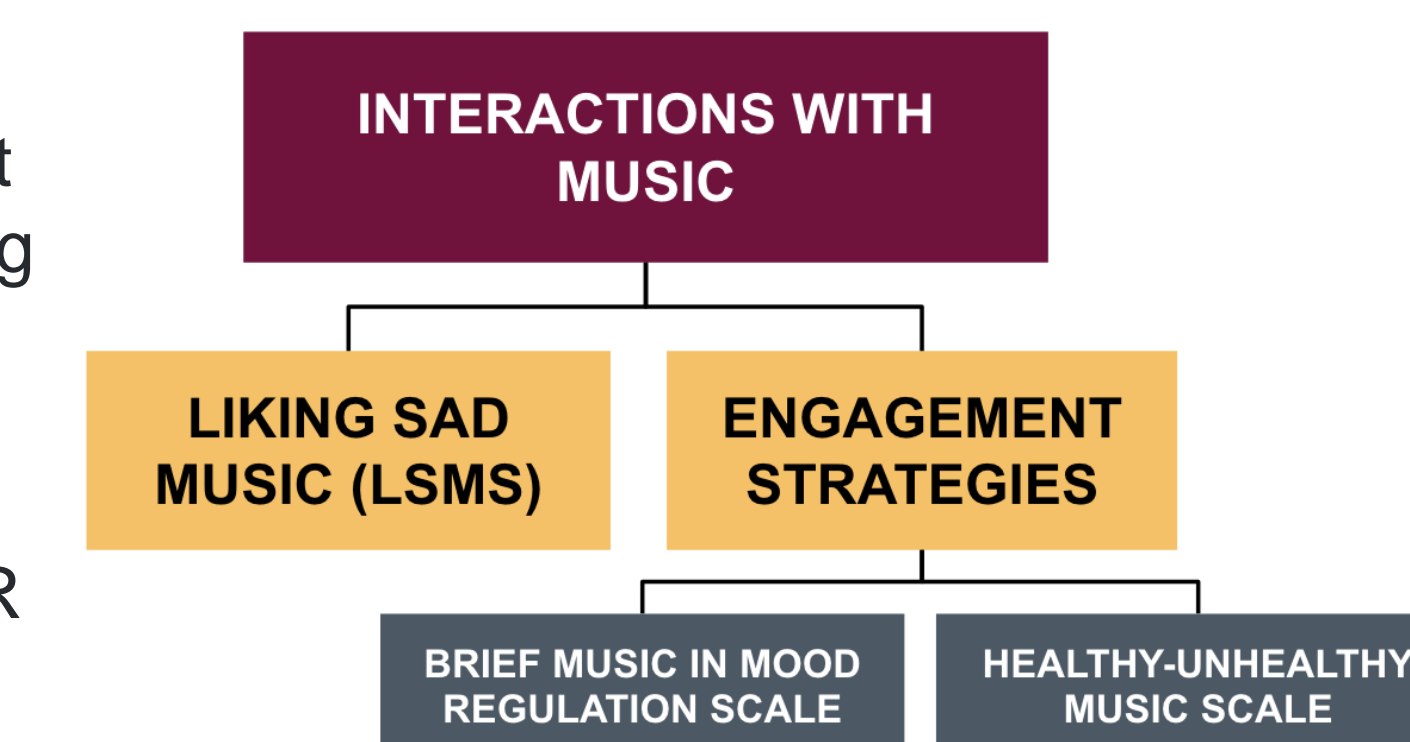
### 1. MML definitions involve poor psychological health



**Fig. 1 (above).** Poor psychological health and its sub-themes were commonly referenced in MML definitions. Inefficient coping sub-themes were also referenced within definitions and generally represent patterns/behaviours exhibited in MML ( $n = 18$ ).

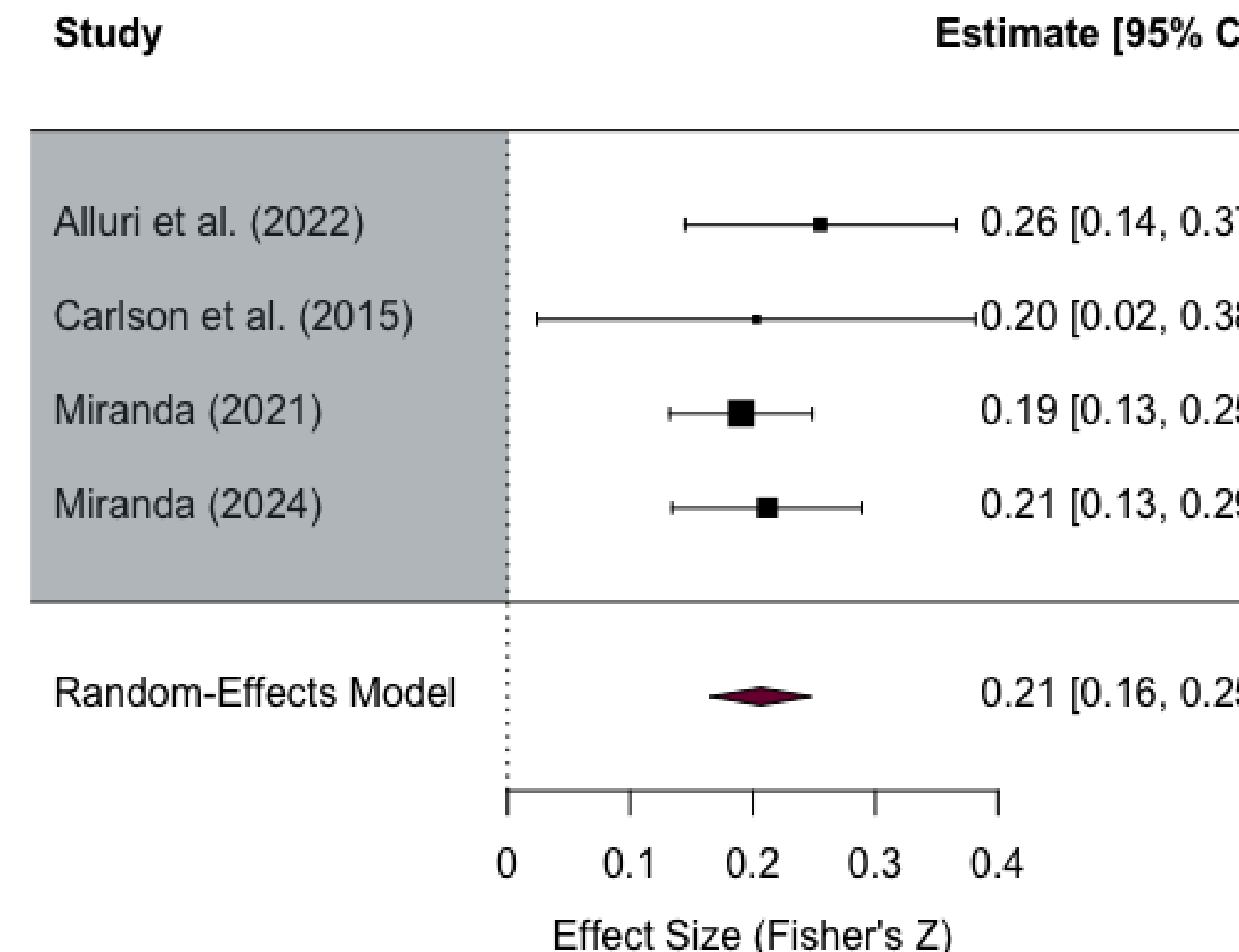
### 2. MML measures target interactions through liking and engagement

**Fig. 2 (right).** MML measures target interactions with music by measuring liking sad music and specific engagement strategies. Specific engagement strategies were generally measured with the B-MMR and HUMS scales ( $n = 18$ ).



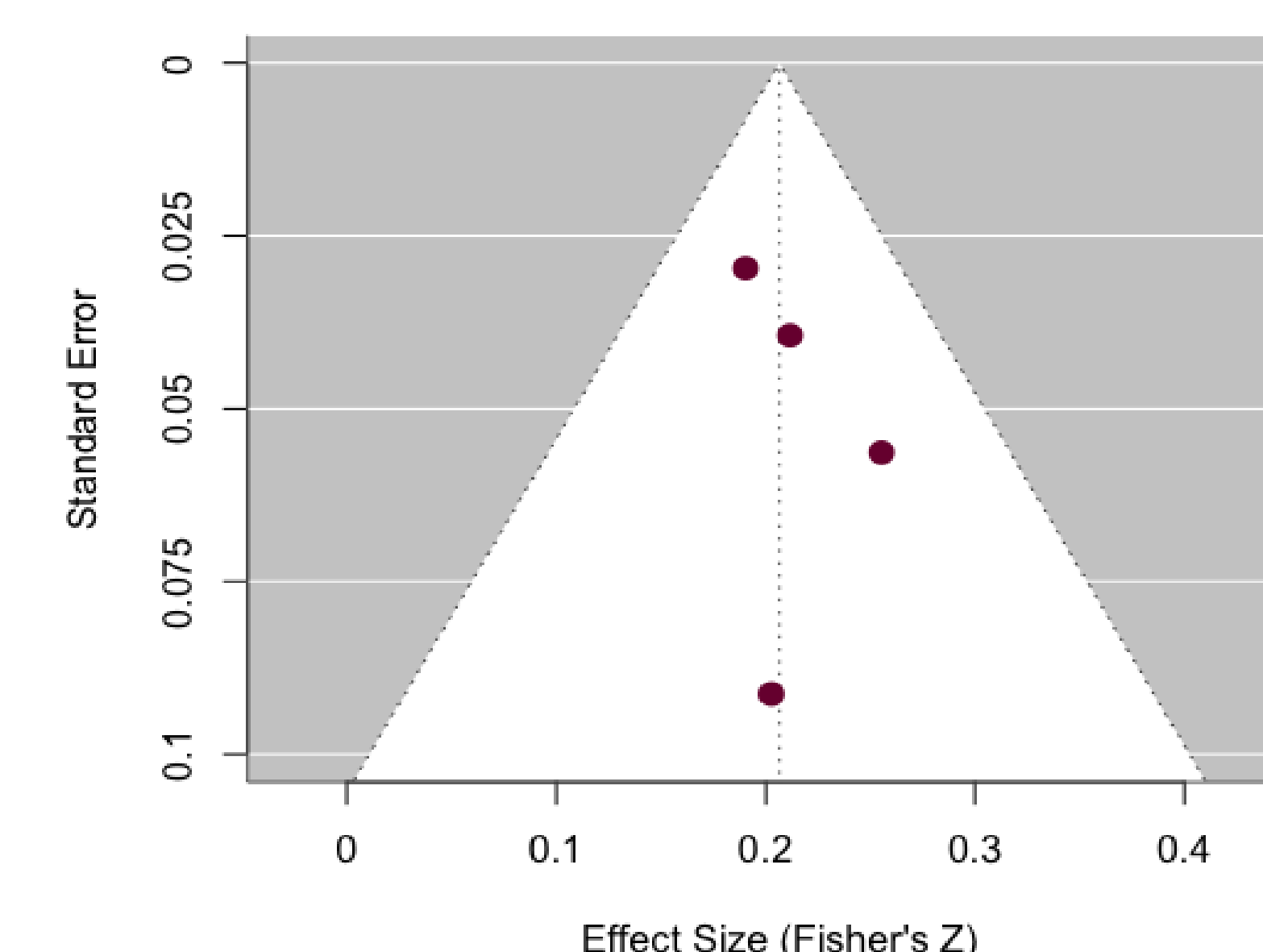
### 3. Positive relationship between neuroticism and MML

#### Consistent effects found across studies



**Fig. 3 (left).** Pooled Fisher's  $Z$  effect size = 0.21 [CI: 0.16-0.25]. No significant heterogeneity across studies ( $I^2 = 0.00\%$ ). No significant between-study effect size variability [ $Q$  ( $df = 3$ ) = 1.0636,  $p = 0.7859$ ]. ( $n = 4$ ).

#### No publication bias found within studies



**Fig. 4 (left).** Publication bias was visually analyzed through plot asymmetry. Symmetry indicates no publication bias ( $n = 4$ ).

## Conclusions

- A valid definition of maladaptive music listening should reference poor psychological health and its subthemes.
- MML is most frequently measured using the Like Sad Music Scale (LSMS), Brief Music in Mood Regulation Scale (B-MMR), or Healthy-Unhealthy Music Scale (HUMS).
- There is a consistent positive correlation between neuroticism and maladaptive music listening. Other personality traits were not well-represented in the dataset.

## Future directions

- Directionality between themes is unclear.
- Adolescence/youth theme might be explained by HUMS scale development and/or ease of access.
- Future research should investigate MML in adults, other personality relationships, and the relationship between various MML scales.

## References

Braun & Clarke (2006). *Qual Res in Psych.*  
Garrido & Schubert (2013). *Musicae Scientiae.*  
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