

The Babyesian™: Part 1 - The Early Years of Learning

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Babyesian statistics

Pronunciation: /'beɪbi'eɪʒən stə'tɪstɪks/

Noun

Definition: Babyesian Statistics is a whimsical pedagogical approach to explaining Bayesian statistics using analogies, examples, and concepts familiar to the developmental stages and learning processes of infants and very young children. This approach aims to simplify complex statistical concepts, making them accessible and comprehensible to beginners or non-experts in the field of statistics.

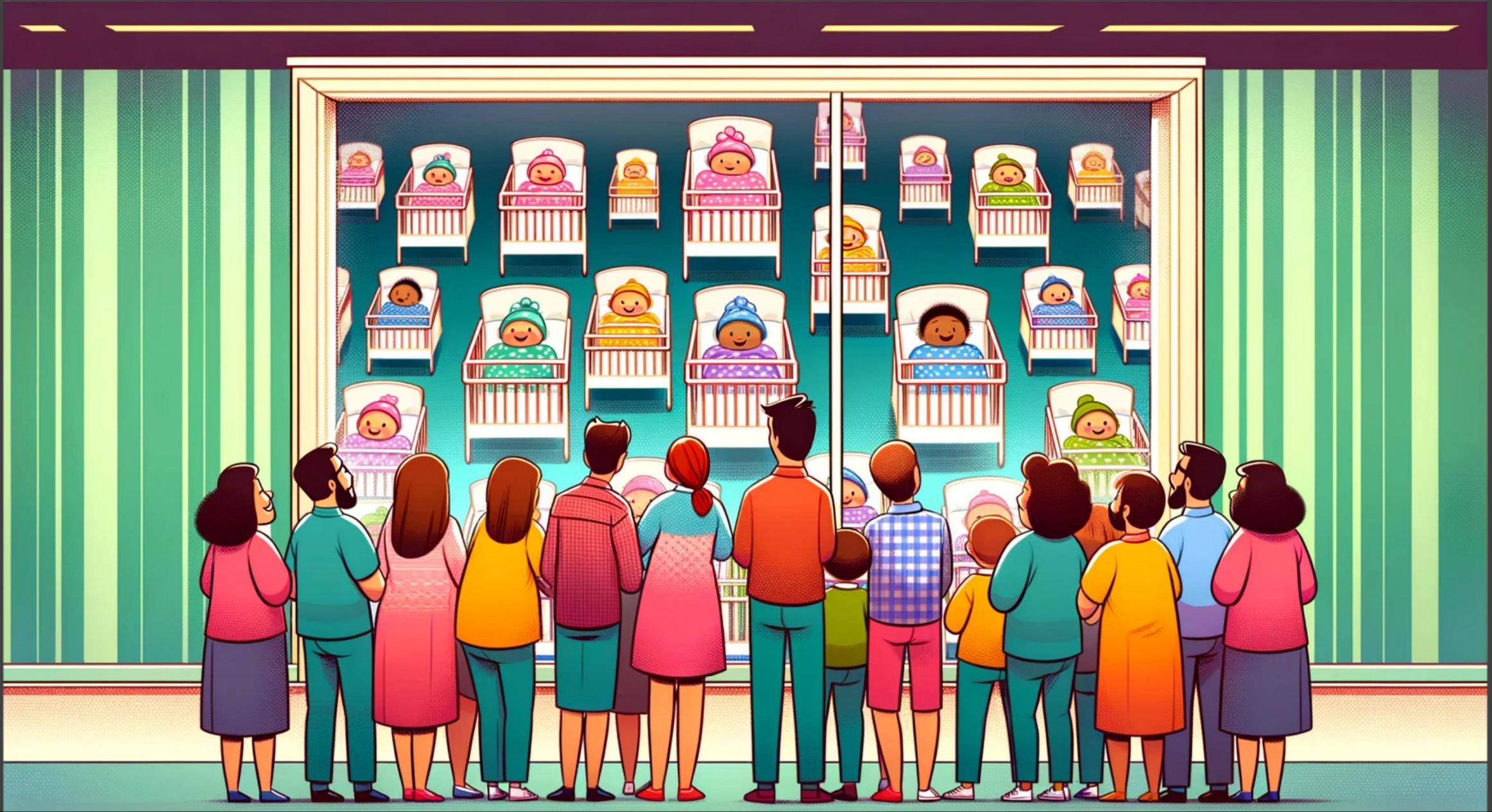
Synonyms:

Toddler-friendly Bayesian Analysis. Preschool Probabilistics

Usage in a sentence: The professor introduced Bayesian probability through Babyesian Statistics, explaining priors and likelihoods through simple, relatable scenarios.

Important Note: Babyesian statistics is not **yet** a formally recognized field within statistics

Likelihood functions (baby-driven)



Likelihood (cont.)



Priors (low informative)



Priors (Informative)



Babyesians (Prior-driven)



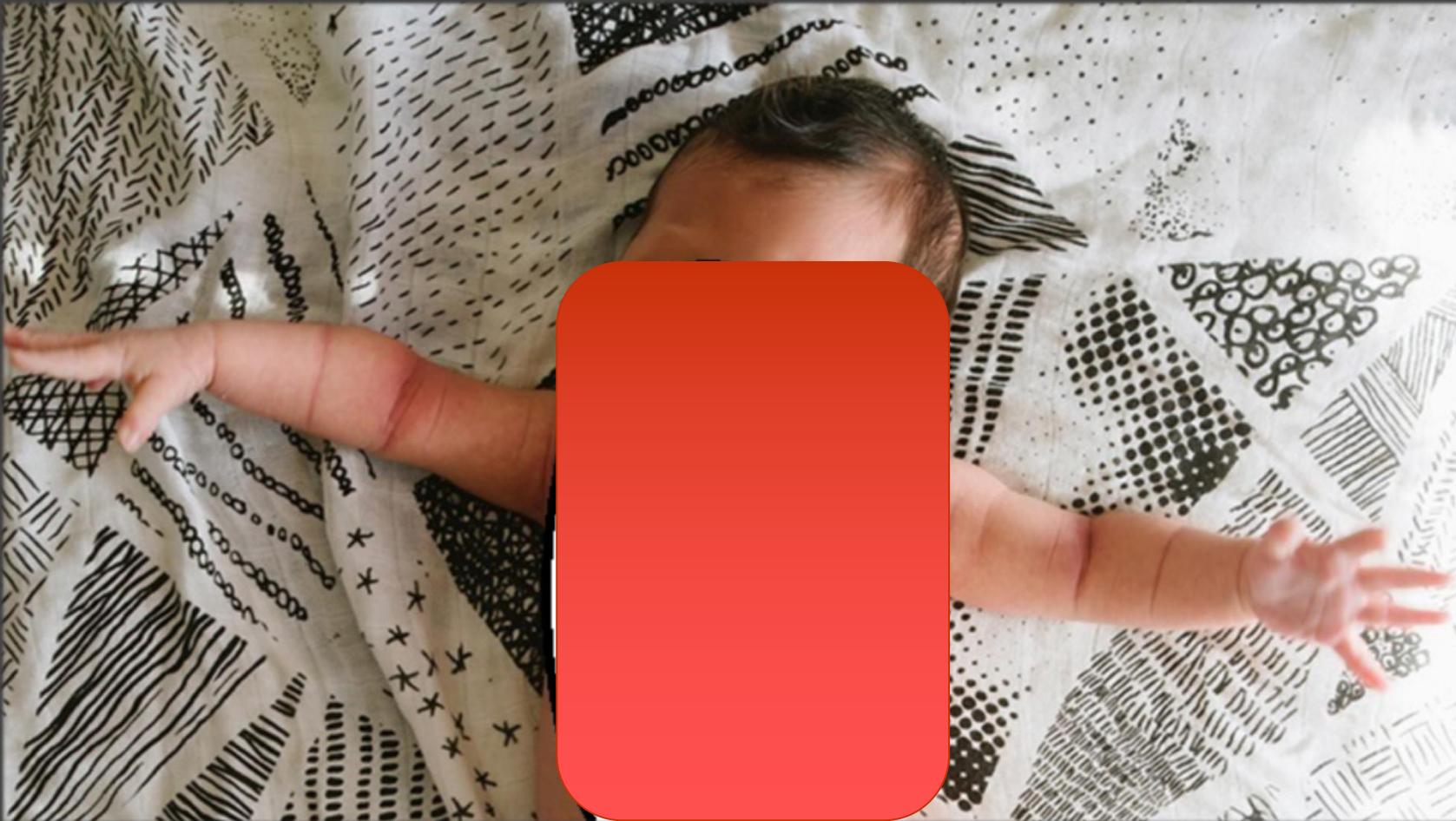
Priors (Excercise)



Posterior and decision making



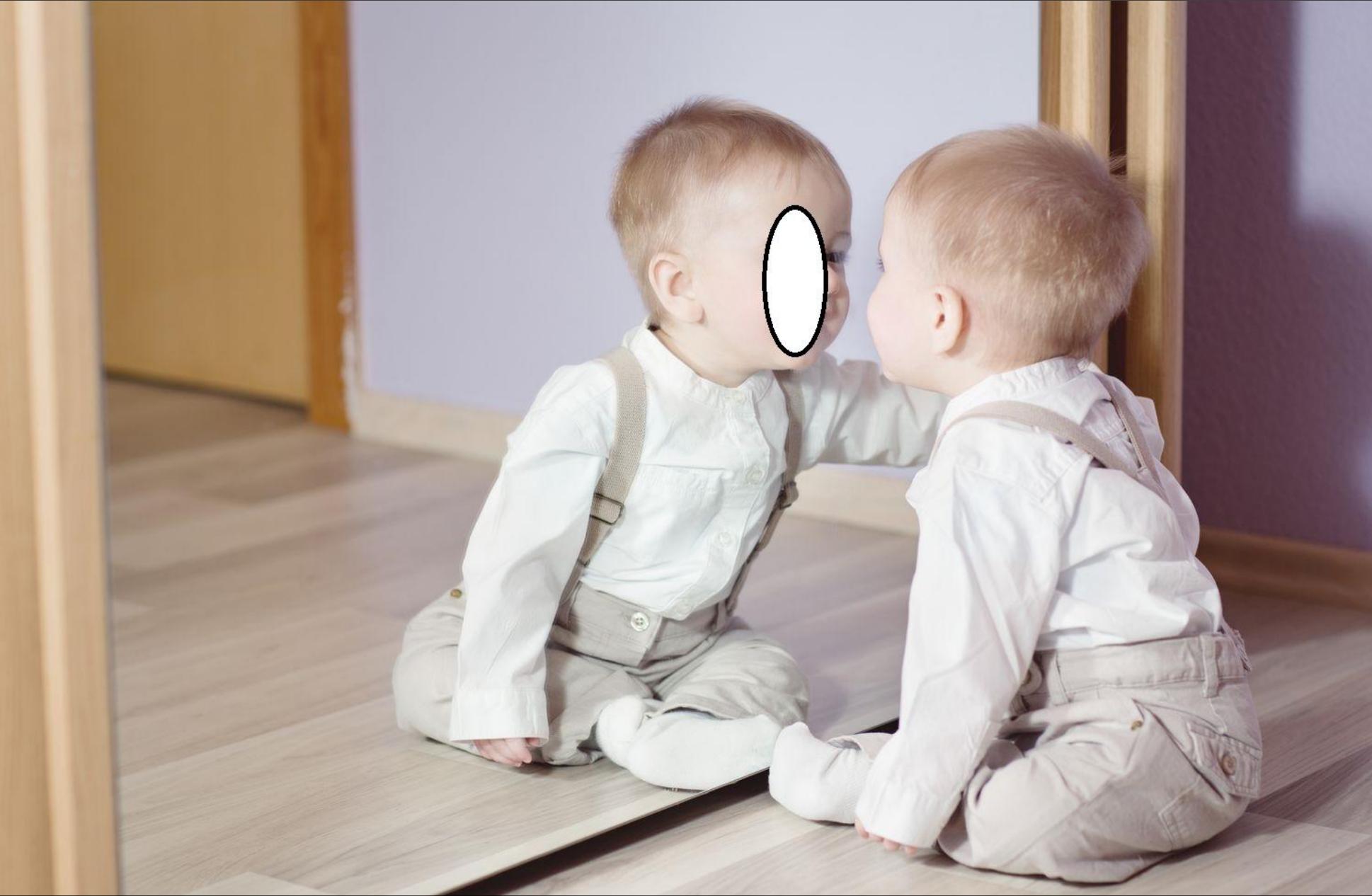
Conjugate Babyesian



MCMC Babyesian



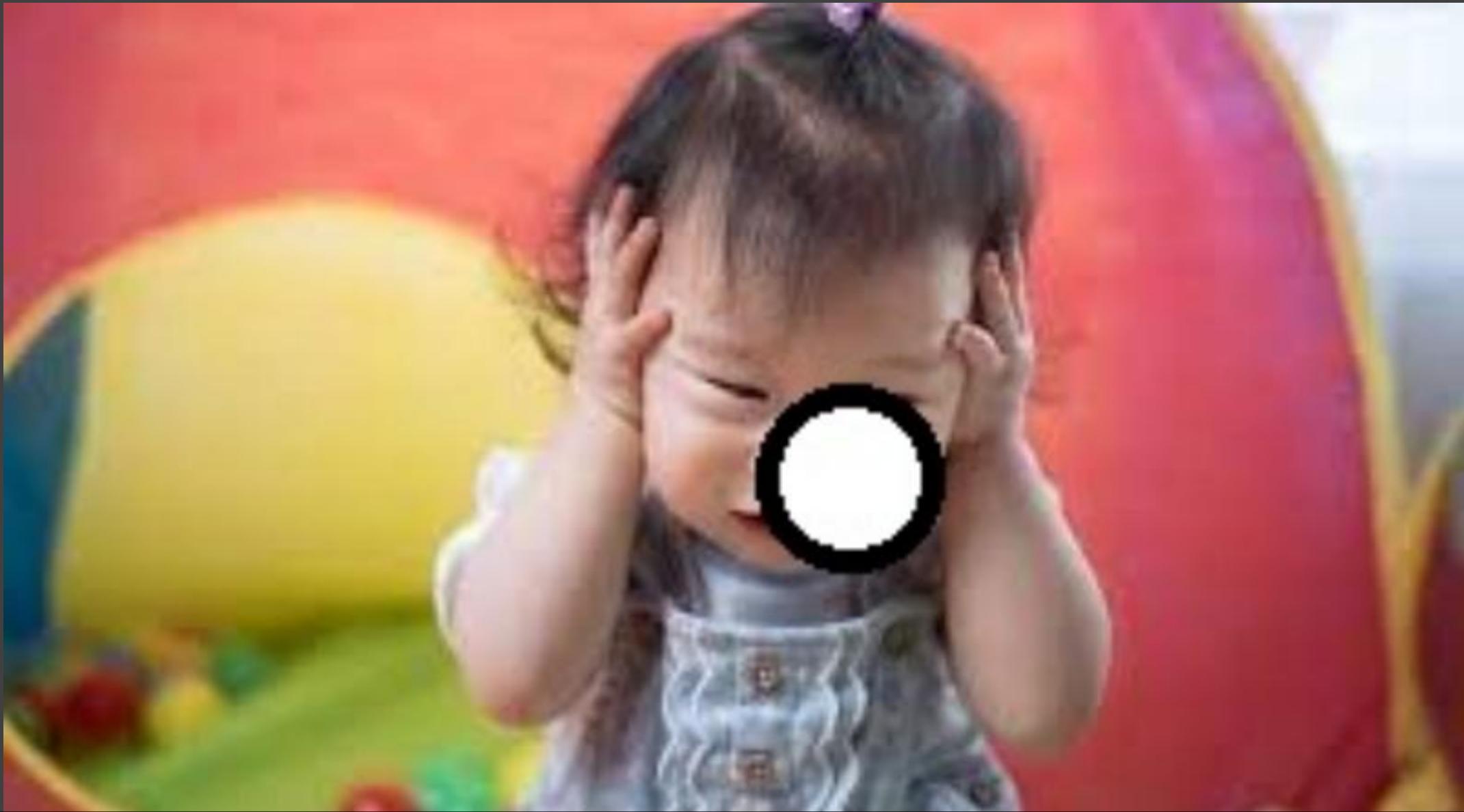
Convergence - Mix chains



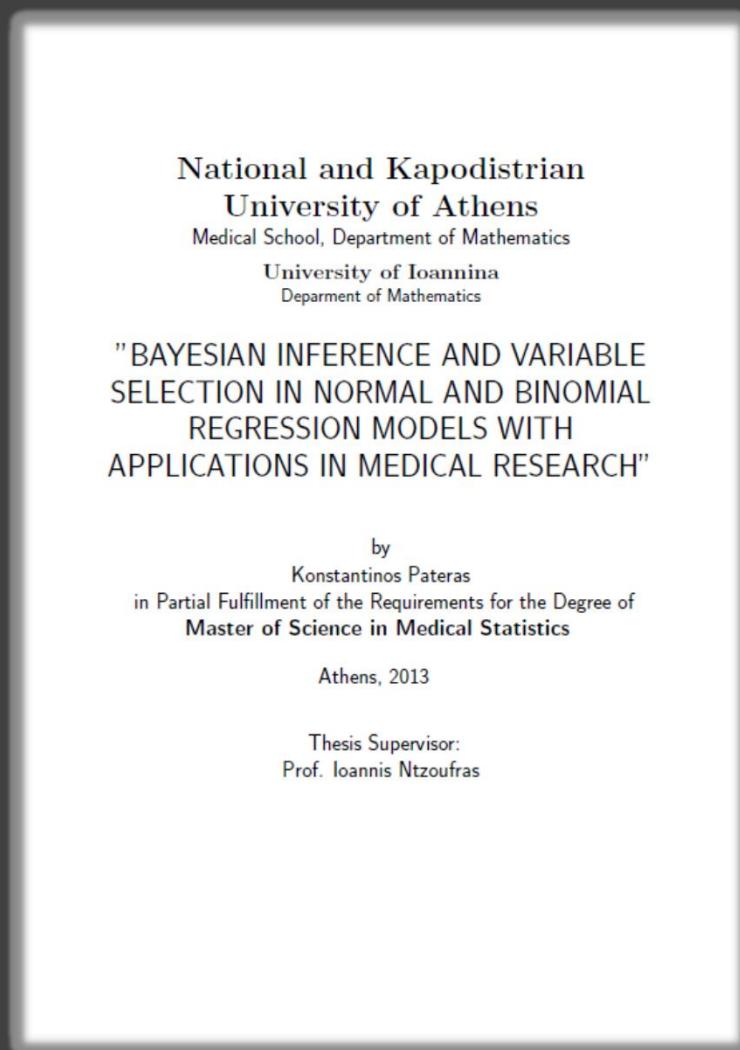
Babyesian robustness



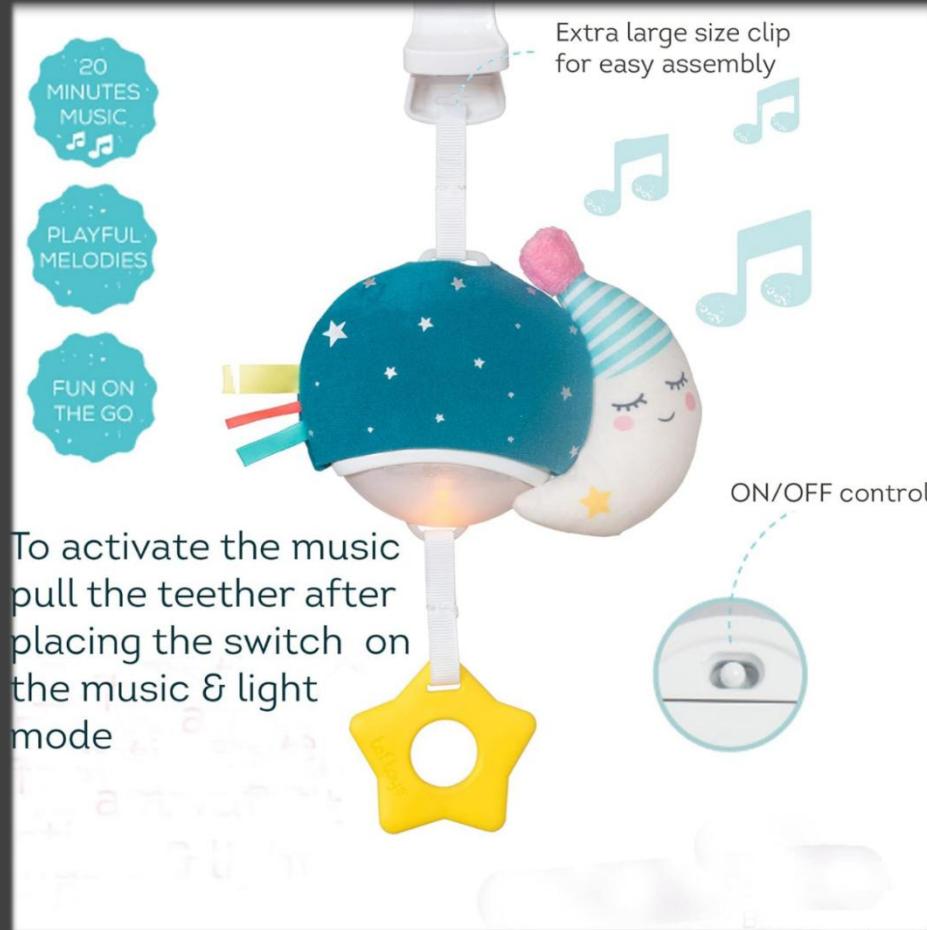
Non-identifiable Bayesian models



Babyesian model selection

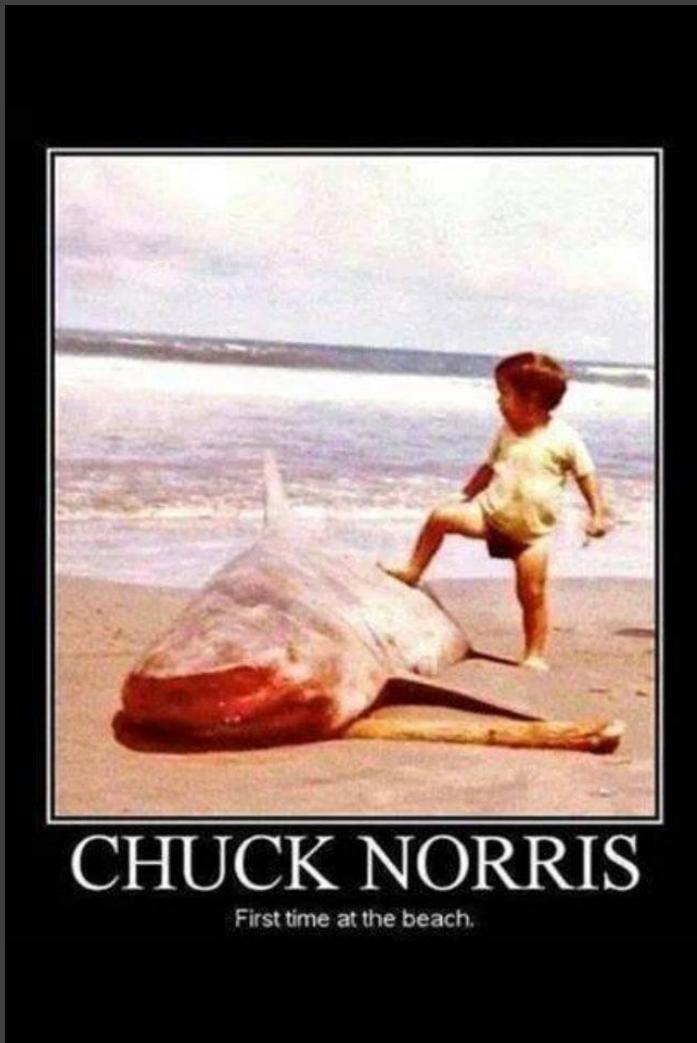


Music selection



How a straightforward **Babyesian** analysis would look like?

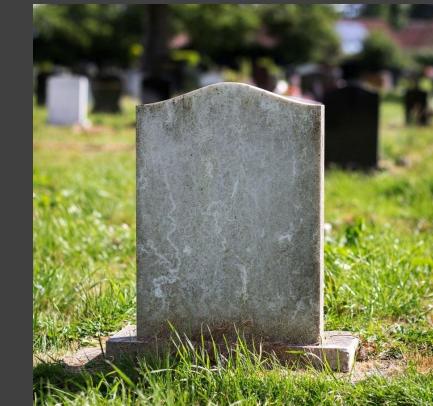
It does not really exist!



Babyesian model restrictions



Spoiler - The Babyesian: Part 4 - The Road to Independence



Final part?



Sneak peak - The Babyesian: Part 3 - Unveiling the Tweenage Mind

Important: user input



Babyesian anxiety



We are all Babyesians!

- Pop stat talking in Brussels
- Climbing mount Olympus
- Starting a PhD
- Living in a new city
- Changing houses
- Start skiing at 35
- Still thinking “What to do in life?”
- Deciding to explore left when all go right
- Teaching a new semester
- Being kind
- Raising a Babyesian
- Remaining a Babyesian

So, where is the Babyesian?



The Bayesian Chronicles

- Part 1 - The Early Years of Learning (x)
- Part 2 - Unveiling the Tweenage Mind
- Part 3 - The Adolescence Chronicles
- Part 4 - The Road to Independence
- Part 5 - The Tapestry of Life's Lessons
- Part 6 - The Legacy of Learning

Credits: Images via 1) Random baby/toddlers internet pictures
2) Disney copyrighted characters
3) DALL-E 3 and [invideo](#)
4) My own photos

Season 1 - Soon in streaming platforms.