









Model 1:	Mood moo	lel
A mood <i>m</i> is reover vocabular	epresented as a multinor y terms	nial probability distribution
 Arriass all the labeled with m Predict how like 	ely this mood would pro	e blog posts duce the query <i>q</i>
Arnass all the labeled with m Predict how lik	ely this mood would pro	e blog posts duce the query <i>q</i>
Amass all the labeled with m Predict how lik post 1 [cheerful] loost 2 [sad]	ely this mood would pro	duce the query q
Arriass all the ' labeled with m Predict how lik post 1 [cheerful] post 2 [sad] post 2 [sad]	ely this mood would pro	duce the query q
Arnass all the' labeled with m Predict how lik post 1 [cheerful] post 2 [sad] post 3 [cheerful]	mood m mood would pro mood: cheerful happy 0.10 love 0.07 fun 0.05	duce the query q
Arnass all the labeled with m Predict how lik post 1 [cheerful] post 2 [sad] post 3 [cheerful] post 4 [tired]	every this mood would provide the service of the se	duce the query q











Upshot

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📥 Two types of phenomena

- A No significant event: hard task
- Significant event: all models return reasonable results Baseline < Model 1 < Model 2 < Model 3</p>
- Other considerations
 - Model 1: mood models (costly on-the-fly, can be pre-computed)
 - Model 3: mood models + topic model (only on-the-fly)
 - Model 2 can easily be implemented on top of an existing search engine, not necessarily require Language Models

****** Wrap-up A Conclusions Three models for capturing the association between topics and mood-annotated blog posts A Identified a clearly preferred model Models are general

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- 👃 Future work
 - Optimizations of our implementation of Model 2
- Sequential aspects: dominant mood on a given day may depend on moods in previous days

