Polyrepresentative Extraction of Information Needs

Diane Kelly & Xin Fu

School of Information & Library Science
University of North Carolina
dianek@email.unc.edu

Workshop on Exploratory Search / HCIL-University of Maryland / 02 June 2005

Motivation

- Users typically pose very short queries
- This may be because users have a difficult time articulating their information needs OR because traditional search interfaces encourage short queries
- Polyrepresentative extraction of information needs (Ingwersen, 1996) suggests obtaining multiple representations of a single information need

‘Extraction’ Form

HARD-401 Bass Amps

[1] How many times have you searched for information about this topic in the past?

- Never
- 1 or 2 times
- 3 or 4 times
- 5 or more times

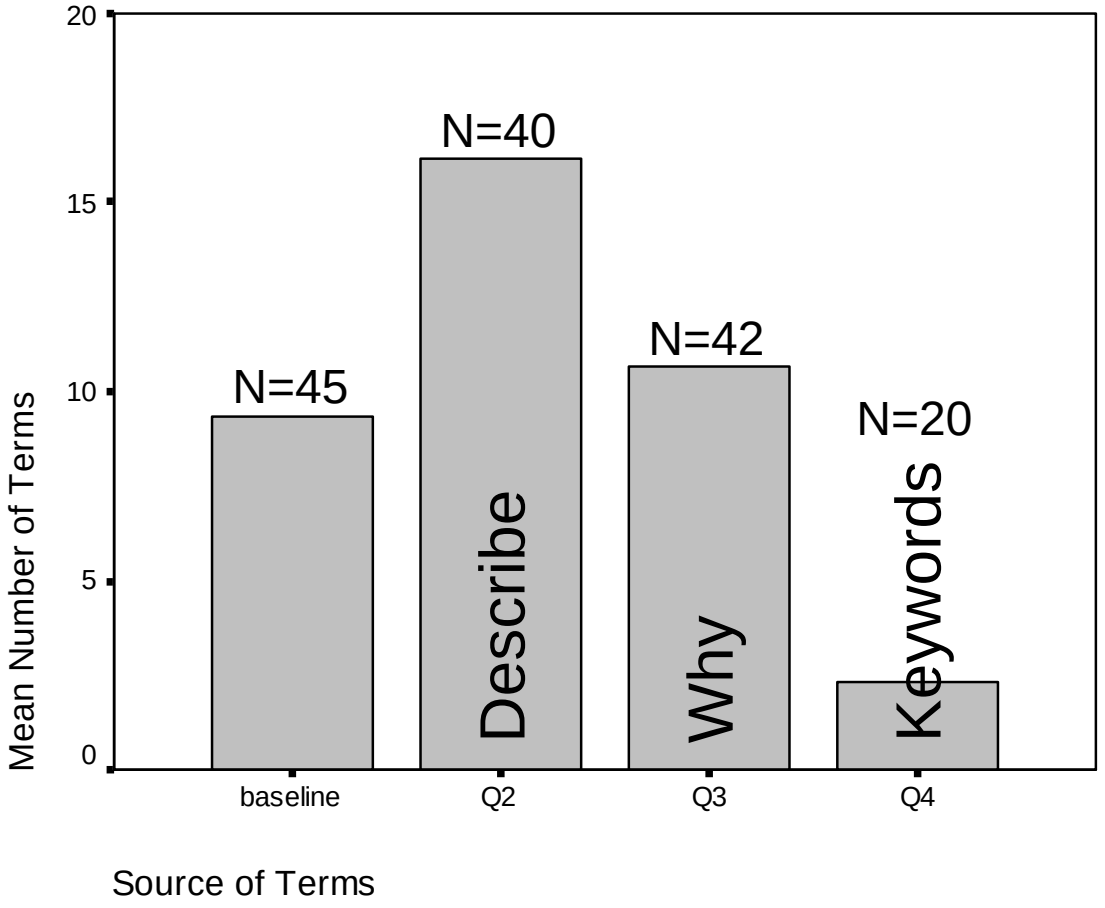
[2] Describe what you already know about the topic.

[3] Why do you want to know about this topic?

[4] Please input any additional keywords that describe your topic.

submit

Results : Mean Number of Terms



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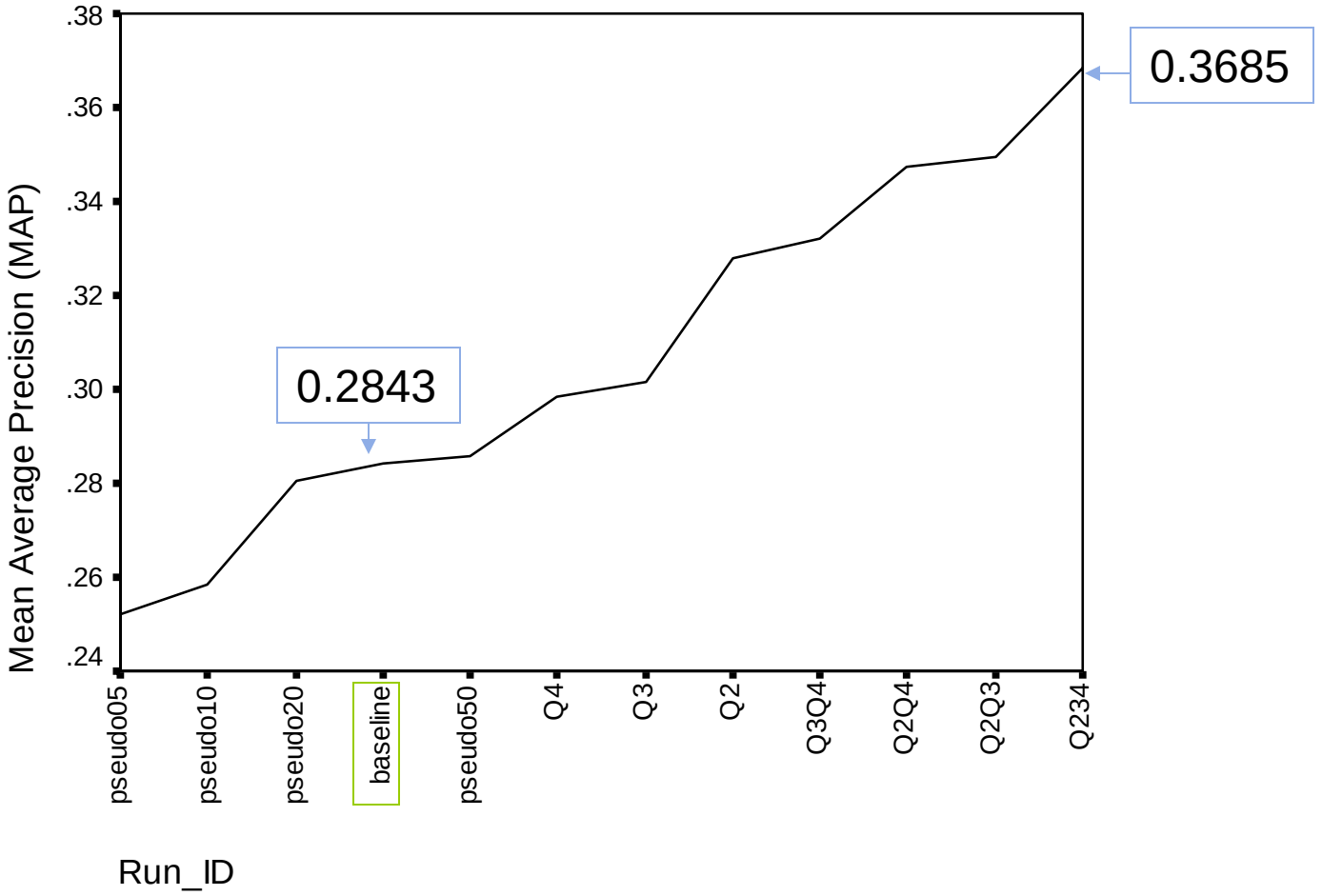
Results : Overall Performance



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Results : Paired-Sample Performance

Pair	N	Mean (SD)	*p*-value
BL, Q2	40	.3007 (.2547), .3498 (.2575)	.039
BL, Q3	42	.2844 (.2515), .3032 (.2598)	ns
BL, Q4	20	.2975 (.2568), .3295 (.2224)	ns
BL, Q2Q3	37	.3022 (.2590), .3847 (.2609)	.006
BL, Q2Q4	18	.2975 (.2709), .3912 (.2313)	.009
BL, Q3Q4	19	.3127 (.2544), .3680 (.2316)	.035
BL, Q234	17	.3145 (.2692), .3993 (.2440)	.023