Web Search Literacy Overview on Skill Acquisition

Ioannis Karatassis
Institute for Information Systems
University of Duisburg-Essen
47048 Duisburg, Germany
karatassis@is.inf.uni-due.de

Norbert Fuhr
Institute for Information Systems
University of Duisburg-Essen
47048 Duisburg, Germany
norbert.fuhr@uni-due.de

December 19, 2020

Contents

1	Skill Acquisition in Online-Tutorial Group	3
2	Skill Acquisition in Gamification Group	4

1 Skill Acquisition in Online-Tutorial Group

Skill	Test 1	Test 2	Test 3	Skill	Test 1	Test 2	Test 3	Skill	Test 1	Test 2	Test 3
	Indexing			Lingui	Linguistic Functions	ons		3	Query Language	guage	
bad_content	40.0%	73.33%	20.92	case	86.67%	100.0%	%0.96	and	6.67%	70.0%	64.0%
cost	30.0%	83.33%	88.0%	punctuation	63.33%	83.33%	88.0%	define	0.0%	43.33%	48.0%
crawler	829.99	100.0%	%0.96	spelling	80.0%	86.67%	72.0%	filetype	3.33%	63.33%	32.0%
fields	53.33%	%0.09	52.0%	stemming	53.33%	93.33%	80.0%	grouping	50.0%	83.33%	80.0%
new_documents	33.33%	80.09	72.0%	stop_words	3.33%	56.67%	48.0%	intitle	0.0%	26.67%	40.0%
old_content	40.0%	80.06	84.0%	. 7	Ranking			number_range	0.0%	26.67%	32.0%
register	73.33%	76.67%	88.0%	features	83.33%	93.33%	%0.96	operator_not	20.0%	20.92	88.0%
reindex	63.33%	20.92	26.0%	personalized	93.33%	93.33%	100.0%	operator_not_short	26.67%	83.33%	88.0%
reindex_intervato	56.67%	80.0%	80.08	personalized_different_users	20.92	93.33%	20.92	or	10.0%	83.33%	52.0%
veracity_assessment	20.0%	%0.06	%0.96	personalized_history	100.0%	100.0%	100.0%	or_short	13.33%	%0.06	92.0%
web	80.08	%0.06	%0.96	personalized_language	%29.96	93.33%	88.0%	phrase	30.0%	20.92	72.0%
Se	Searchability			personalized_location	46.67%	100.0%	100.0%	site	3.33%	829.99	48.0%
availability	40.0%	76.67%	84.0%	personalized_same_user	20.0%	93.33%	84.0%	syntax_operators	36.67%	20.92	84.0%
index_exclusion	%0.09	80.09	80.08	term_frequency	26.67%	20.0%	64.0%				
nolink	40.0%	829.99	26.0%	term_ordering	3.33%	63.33%	44.0%				
only_index	46.67%	86.67%	88.0%		Search Tactics						
supported_documents	23.33%	86.67%	%0.96	bibble	13.33%	33.33%	48.0%				
*	Web Search			filter	10.0%	36.67%	32.0%				
content	83.33%	%0.06	80.08	hubspoke	73.33%	80.08	20.0%				
fields	10.0%	76.67%	80.08	phrase	30.0%	20.92	72.0%				
logical_and	40.0%	23.33%	24.0%	select	829.99	86.67%	80.08				
logical_not	40.0%	100.0%	100.0%	qns	0.0%	46.67%	32.0%				
logical_or	53.33%	100.0%	%0.96	suggestion	30.0%	80.08	8.0%				
match_media_documents	46.67%	82.99	26.0%	type	100.0%	100.0%	%0.96				
phrase	8.00	20.0%	48.0%								
qualitative_search	46.67%	93.33%	84.0%								
quantitative_search	93.33%	80.96	92.0%								
restriction	%0.09	70.0%	84.0%								
terms	23.33%	53.33%	26.0%								

Table 1: Overview on skill acquisition for the tutorial group. Percentage values represent the proportion of students who were found to have a particular knowledge test acquired. Skill prefixes are omitted due to space limitation.

Table 2: Overview on skill acquisition for the gamification group. Percentage values represent the proportion of students who were found to have a particular skill in a particular knowledge test acquired. Skill prefixes are omitted due to space limitation.