

Betty's Brain

The role of feedback in preparation for future learning:

A case study in learning by teaching environments.

Content

- Study the effect of different types of feedback on future learning.
- Three different feedback test groups:
 - LBT (Learning by teaching)
 - SRL - C (Self regulated learning - cognitive)
 - SRL - A (Self regulated learning - affective)
- Each group is evaluated on their use of queries, quizzes and on their ability in creating a concept map.

Table 4. Means, standard deviations, and statistical significance for the main study counts

Main study	SRL Cognitive Mean (sd)	SRL Affective Mean (sd)
Quiz attempts refused (session 2)	1.77 (1.4) ^a	3.54 (2.2)
Quiz attempts refused (session 3)	1.92 (1.8) ^a	4.15 (3.3)
Quiz attempts refused (session 4)	4.31 (4.8)	10.54 (10.0)
Quiz attempts refused (session 7)	4.08 (3.9) ^a	9.33 (6.8)

^a Significantly less than SRL-A, $p < .05$

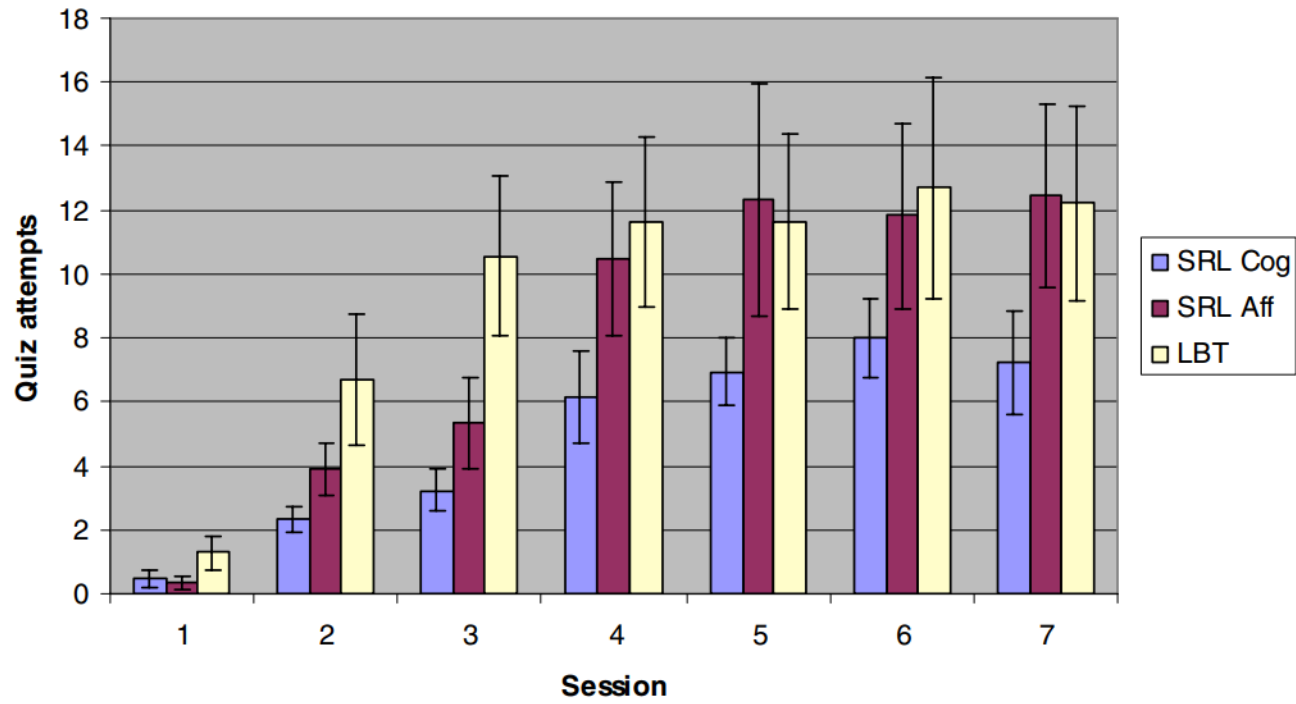
Main study	SRL Cognitive Mean (sd)	SRL Affective Mean (sd)	LBT Mean (sd)
Queries (session 6)	7.00 (6.0)	12.92 (9.1) ^{ab}	3.73 (3.8)
Queries (session 7)	6.62 (6.7)	16.17 (13.7) ^{ab}	4.00 (4.6)

^a Significantly greater than SRL-C, $p < .05$; ^b Significantly greater than LBT, $p < .05$

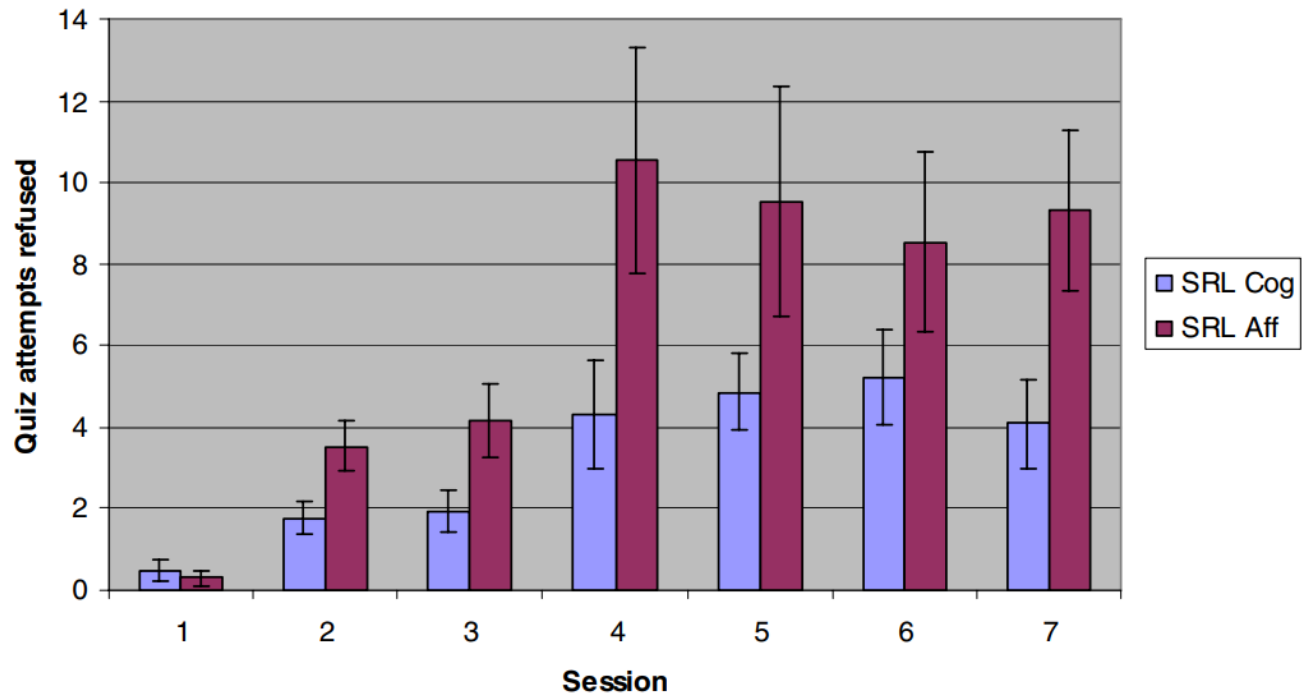
Main study	SRL Cognitive Mean (sd)	SRL Affective Mean (sd)	LBT Mean (sd)
Resource accesses (session 5)	4.92 (4.6)	1.92 (2.2) ^{ab}	5.00 (3.2)
Resource accesses (session 6)	5.08 (3.3)	2.00 (2.6) ^a	3.55 (2.7)

^a Significantly less than SRL-C, $p < .05$; ^b Significantly less than LBT, $p < .05$

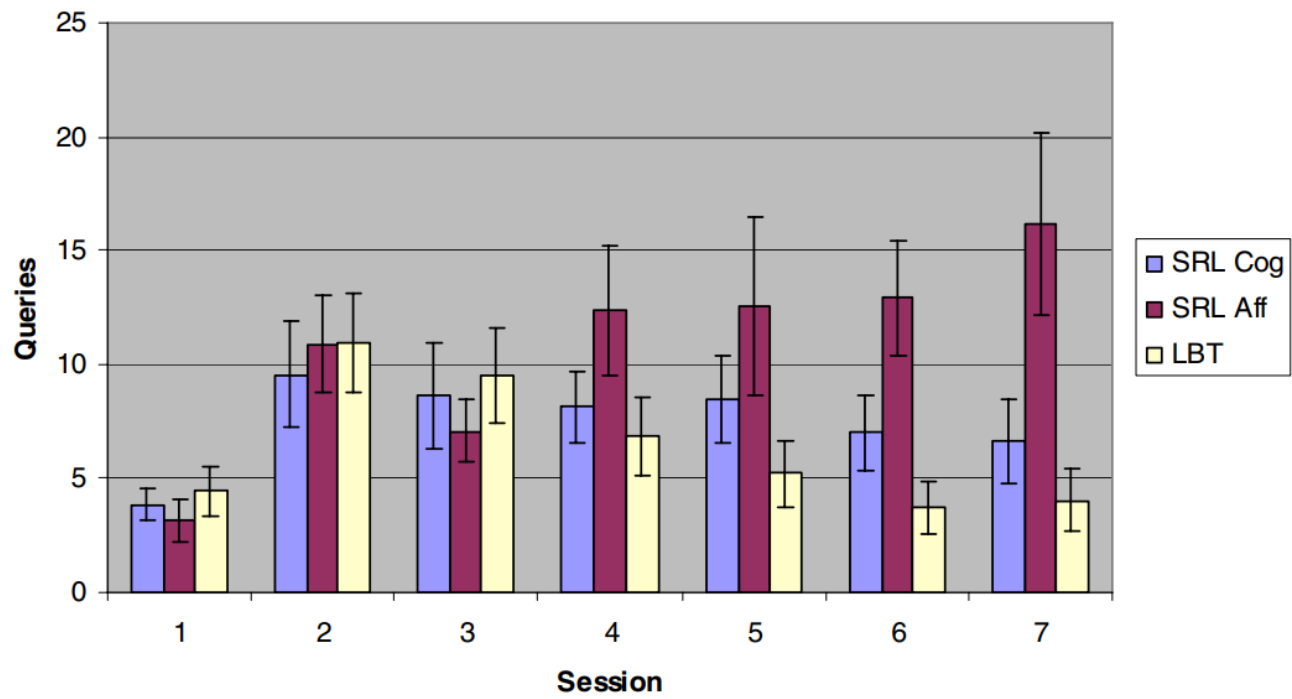
Quiz attempts by session



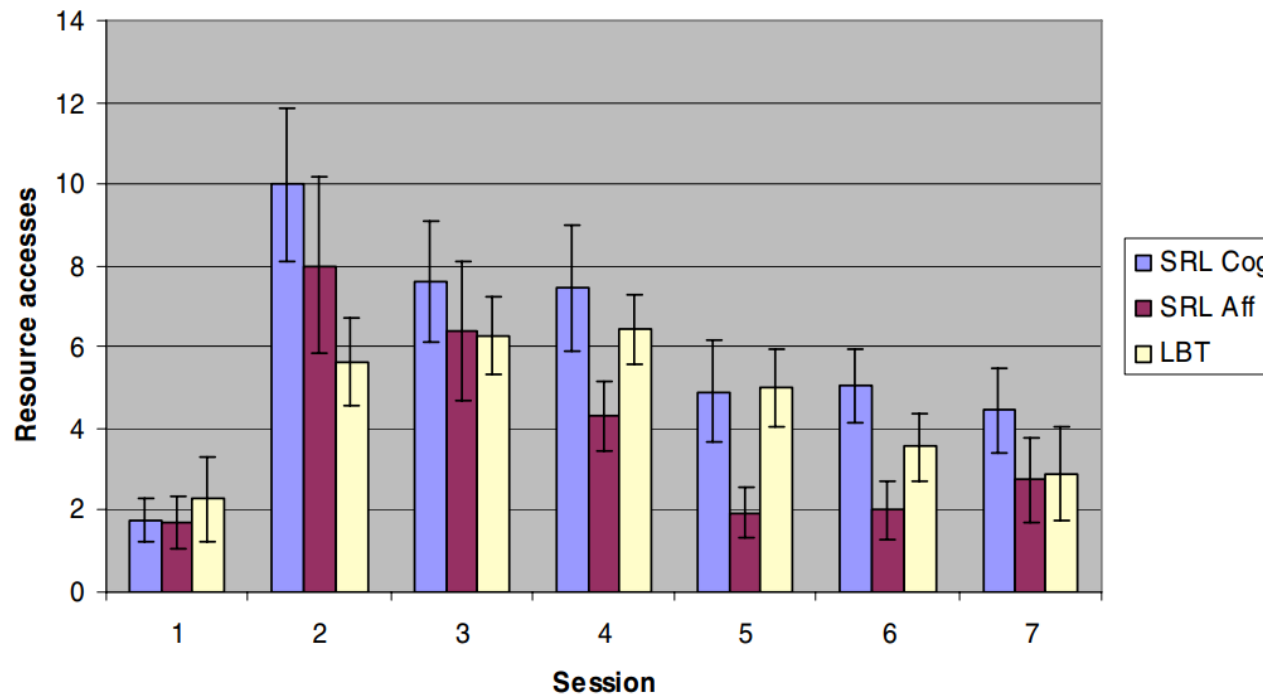
Quiz attempts refused by session



Queries by session



Resource accesses by session



Group decision:

NEUTRAL

Review

- Positive points:
 - Extended review of past studies
 - In depth evaluation of their own study
 - Signposting made obvious what the authors were doing in each section
 - Statistics were simple for a novice reader
 - The study itself was interesting
- Negative points:
 - It assumes previous knowledge
 - Statistical data should be more complex and in depth
 - There is no mention of implications for the larger field of study
 - The paper was unorganised