

**Definitions:**

- NULL: interactor returns NULL if user says nothing or something not in grammar
- Extra :
- 2<sup>nd</sup> level no's:

**Specific Performance Metrics**

Interactor	Metric	Typical Indicator
1		
	elapsed time / (null + incorrect + correct)	time per iteration
	(null + incorrect) / (nulls + incorrect + correct)	error rate
	no match / (no match + match + no response)	bad response rate
2		
	elapsed time / (null + incorrect + correct)	time per iteration
	(nulls + missing + extra) / (nulls + missing + extra + correct)	error rate
	no match / (no match + match + no response)	bad response rate
3		
	elapsed time / (null + incorrect + correct)	time per iteration
	(nulls + missing + extra) / (nulls + missing + extra + correct)	error rate
	no match/ (no match + match + no response)	bad response rate
4		
	elapsed time / (null + incorrect + correct)	time per iteration
	(null + incorrect) / (nulls + incorrect + correct)	error rate
	(2 <sup>nd</sup> -level no's) / (match + no match + no response)	2 <sup>nd</sup> level no rate
	no match/ (no match + match + no response)	no response rate
5		
	elapsed time / (null + incorrect + correct)	time per iteration
	(null + incorrect) / (nulls + incorrect + correct)	error rate
	(2 <sup>nd</sup> -level no's) / (match + no match + no response)	2 <sup>nd</sup> level no rate

6		
	elapsed time / (null + incorrect + correct)	time per iteration
	(null + incorrect) / (nulls + incorrect + correct)	error rate
	no match/ (no match + match + no response)	bad response rate
7		
	elapsed time / (null + incorrect + correct)	time per iteration
	(null + incorrect) / (nulls + incorrect + correct)	error rate
	no match/ (no match + match + no response)	bad response rate
	no response/ (no match + match + no response)	no response rate
8		
	elapsed time / (null + incorrect + correct)	time per iteration
	(null + incorrect) / (nulls + incorrect + correct)	error rate
	(no match) / (match + no match + no responses )	bad response rate
	(no response) / (match + no match + no responses )	no response rate
9		
	elapsed time / (null + incorrect + correct)	time per iteration
	(null + incorrect) / (nulls + incorrect + correct)	error rate
	(no match) / (match + no match + no responses )	bad response rate
	(no response) / (match + no match + no responses )	no response rate
10	(not covered this time)	

11		
	$\frac{(\text{null} + \text{incorrect})}{(\text{nulls} + \text{incorrect} + \text{correct})}$	error rate
	$\frac{\text{no match}}{(\text{match} + \text{no match} + \text{no response})}$	bad response rate
12		
	$\frac{\text{elapsed time}}{(\text{null} + \text{incorrect} + \text{correct})}$	time per iteration
	$\frac{(\text{null} + \text{incorrect})}{(\text{nulls} + \text{incorrect} + \text{correct})}$	error rate
	$\frac{(\text{no match})}{(\text{match} + \text{no match} + \text{no responses})}$	bad response rate