Table 1: Review coverage model statistics (Reviewed churn instead of reviewed changes).

		Qt		VTK	ITK
		5.0	5.1	5.10	4.3
Adjusted R^2		0.64	0.66	0.38	0.44
Optimism-reduced adjusted R^2		0.62	0.63	0.20	0.19
Wald χ^2		2,360***	2,615***	114***	177***
Budgeted Degrees of Freedom		89	89	11	14
Degrees of Freedom Spent		17	24	9	9

		Overall	Nonlinear	Overall	Nonlinear	Overall	Nonlinear	Overall	Nonlinear
Size	D.F.	4	3	4	3	1	-	1	-
	χ^2	85***	57***	81***	73***	4*		15***	
Complexity	D.F.	2	1	2	1	1	-	1	-
	χ^2	7*	5*	8*	7*	1°		< 1°	
Prior defects	D.F.	2	1	2	1	2	1	3	2
	χ^2	49***	32***	83***	11***	102***	82***	51***	26***
Churn	D.F.	1	-	1	-	1	-	1	-
	χ^2	< 1°		< 1°		< 1°		< 1°	
Change entropy	D.F.	2	1	4	3	1	-	†	
	χ^2	12*	7*	34***	33***	< 1°			
Total authors	D.F.	3	2	†		1	-	†	
	χ^2	64***	14***			50***			
Minor authors	D.F.	‡		4	3	‡		1	-
	χ^2			78***	52***			25***	
Major authors	D.F.	†		†		†		†	
	χ^2								
Author ownership	D.F.	2	1	3	2	1	-	1	-
	χ^2	4°	2°	8*	7*	< 1°		< 1°	
Reviewed changes	D.F.	†		†		†		†	
	χ^2								
Reviewed churn	D.F.	1	-	4	3	1	-	1	-
	χ^2	1°		48***	48***	9**		< 1°	

Discarded during:

† Variable clustering analysis ($|\rho| \geq 0.7$)

‡ Redundant variable analysis ($R^2 \geq 0.9$)

Statistical significance of explanatory power according to Wald χ^2 likelihood ratio test:

○ $p \geq 0.05$; * $p < 0.05$; ** $p < 0.01$; *** $p < 0.001$

- Nonlinear degrees of freedom not allocated

Table 2: Review coverage model statistics (Major authors instead of total authors).

		Qt		VTK	ITK
		5.0	5.1	5.10	4.3
Adjusted R^2		0.62	0.68	0.40	0.44
Optimism-reduced adjusted R^2		0.60	0.65	0.22	0.22
Wald χ^2		2,197***	2,872***	120***	109***
Budgeted Degrees of Freedom		89	89	11	14
Degrees of Freedom Spent		17	24	10	11

		Overall	Nonlinear	Overall	Nonlinear	Overall	Nonlinear	Overall	Nonlinear
Size	D.F.	4	3	4	3	1	-	1	-
	χ^2	148***	88***	61***	60***	4°		16***	
Complexity	D.F.	2	1	2	1	1	-	1	-
	χ^2	12**	7*	7*	7*	$< 1°$		$< 1°$	
Prior defects	D.F.	2	1	2	1	2	1	3	2
	χ^2	349***	43***	37***	1°	106***	79***	44***	30***
Churn	D.F.	1	-	1	-	1	-	†	
	χ^2	$< 1°$		$< 1°$		$< 1°$			
Change entropy	D.F.	2	1	4	3	1	-	†	
	χ^2	40***	30***	16**	14**	1°			
Total authors	D.F.	†		†		†		†	
	χ^2								
Minor authors	D.F.	‡		4	3	1	-	1	-
	χ^2			84***	50***	40***		24***	
Major authors	D.F.	3	2	3	2	1	-	3	2
	χ^2	3°	1°	56***	7*	16***		4°	$< 1°$
Author ownership	D.F.	2	1	‡		1	-	1	-
	χ^2	16**	7*			4°		$< 1°$	
Reviewed changes	D.F.	1	-	4	3	1	-	1	-
	χ^2	1°		52***	51***	13***		$< 1°$	
Reviewed churn	D.F.	†		†		†		†	
	χ^2								

Discarded during:

† Variable clustering analysis ($|\rho| \geq 0.7$)

‡ Redundant variable analysis ($R^2 \geq 0.9$)

Statistical significance of explanatory power according to Wald χ^2 likelihood ratio test:

° $p \geq 0.05$; * $p < 0.05$; ** $p < 0.01$; *** $p < 0.001$

- Nonlinear degrees of freedom not allocated