

Is code
review
really Agile?





The Manifesto

Individuals and interactions

over processes and tools

Working software

over comprehensive documentation

Customer collaboration

over contract negotiation

Responding to change

over following a plan

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Manifesto Principles - I

Working software is the primary measure of progress.

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Getting to Working Software



Behaviors

- Requirements
- Design
- Architecture



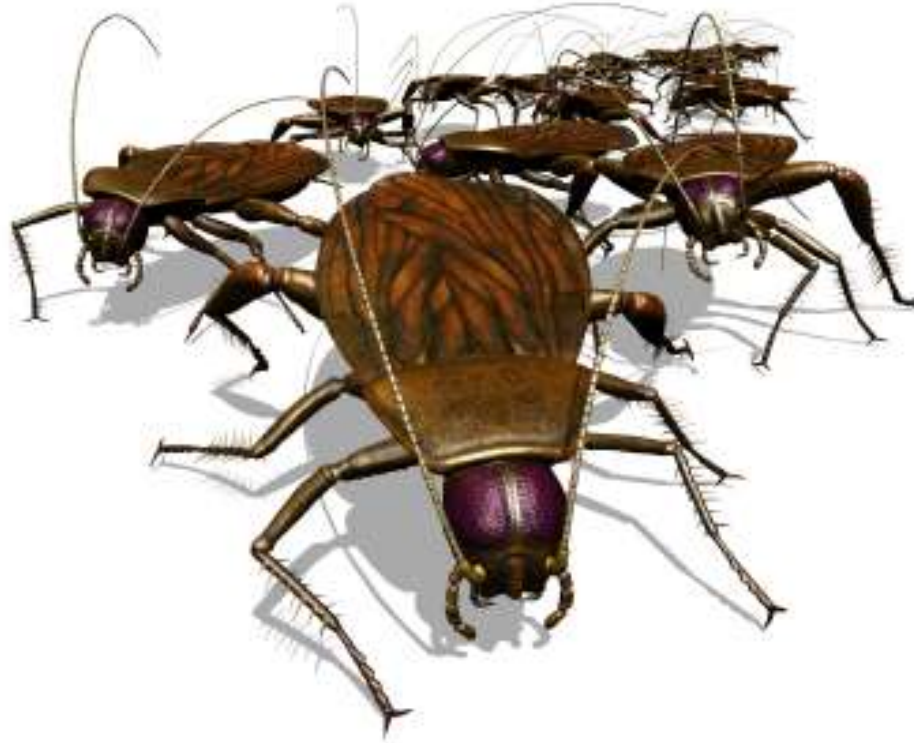
Behaviors

- Coding



Behaviors

- Coding



Professional Writers Have Editors

Good point:	I think, therefore I am. ✓
Awkward/unclear phrasing:	Herbert Spencer wrote <i>Social Statics</i> , basing his ideas in that modern society was a direct result of natural selection.
Spelling error:	I rarely make mistakes. SP
Delete:	This was obviously a frequent occurrence.
New paragraph:	Part 3: Conclusion. The end is near. PP
Invert word order:	to boldly go where no man has gone before... PV
Passive voice: (Use active voice)	"You are loved by me," I told my sweetheart on Valentine's Day.
Wrong word:	This won't effect my feelings for you. W
Dangling participle:	Looking back at World War I, it marks the end of an era. DP
Comma splice:	Charles Darwin was a modest man, he was a great thinker. CS
Sentence fragment:	Thus forcing Germany to wage war against France too.. FR
Indent:	→ Goethe, Johann Wolfgang von. Faust, Part I. Translated by David Luke. Oxford: Oxford University Press, 1987.
Capitalize:	god
Lower case:	the Gods
Insert space:	afterall
Eliminate space:	Do you believe in an after life?
Use parallel construction:	First, she acted; secondly, she was thinking it over. PAR
Subject-verb agreement:	One time were too many.
Subject-pronoun agreement:	Prussia completely changed their foreign policy. AGR

Input interpretation:

US editors | US writers and authors

US employment summary:

[More](#)

	US editors	US writers and authors
people employed	105 920 people (1 in 1268)	44 310 people (1 in 3032)
yearly change	+5750 people (+5.7%)	+1050 people (+2.4%)
median wage	\$48 320 per year	\$50 660 per year
yearly change	+\$1330 per year (+2.8%)	+\$2020 per year (+4.2%)
50% range	\$35 710 to \$66 770 per year	\$36 370 to \$70 370 per year
80% range	\$27 360 to \$91 390 per year	\$26 530 to \$99 910 per year

(2007 data)

[Units »](#)

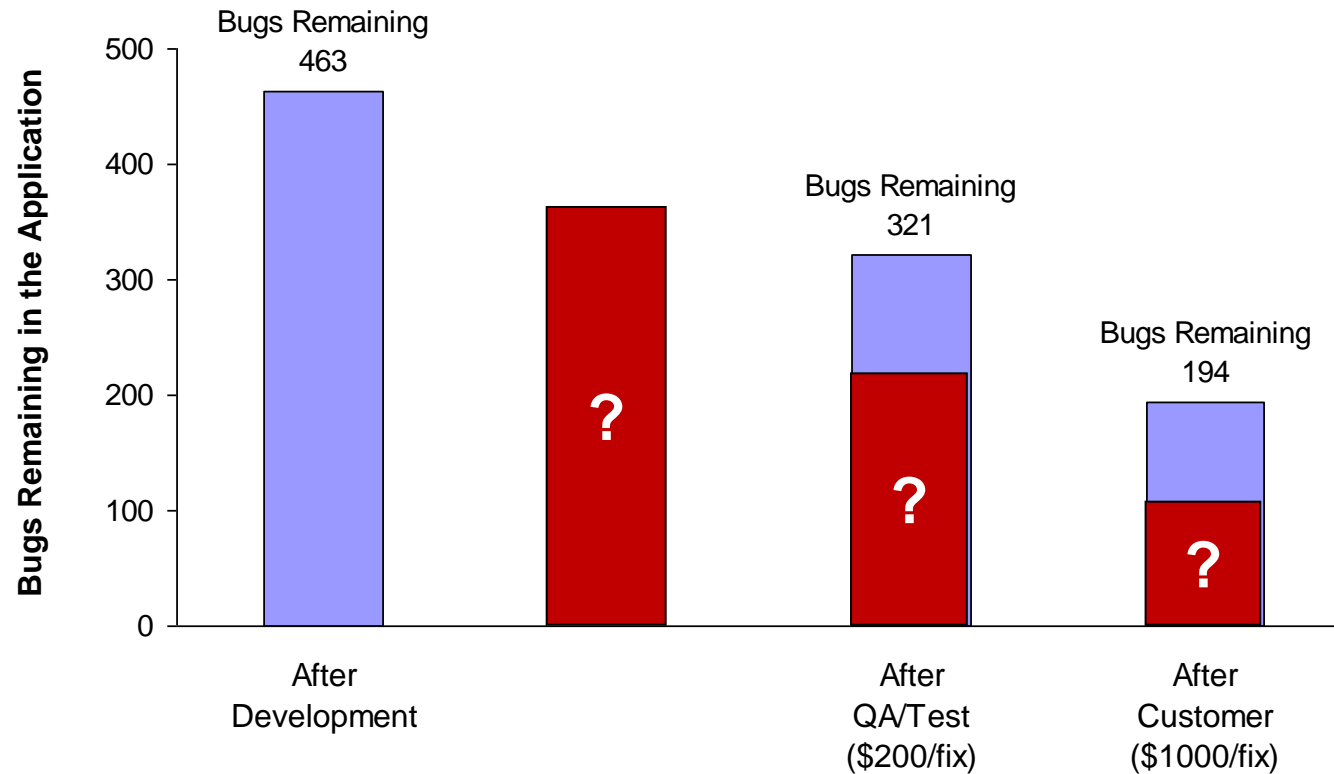
Spell Czech:

Good, butt knot enough

ROI:

The Experiment

Before Code Review

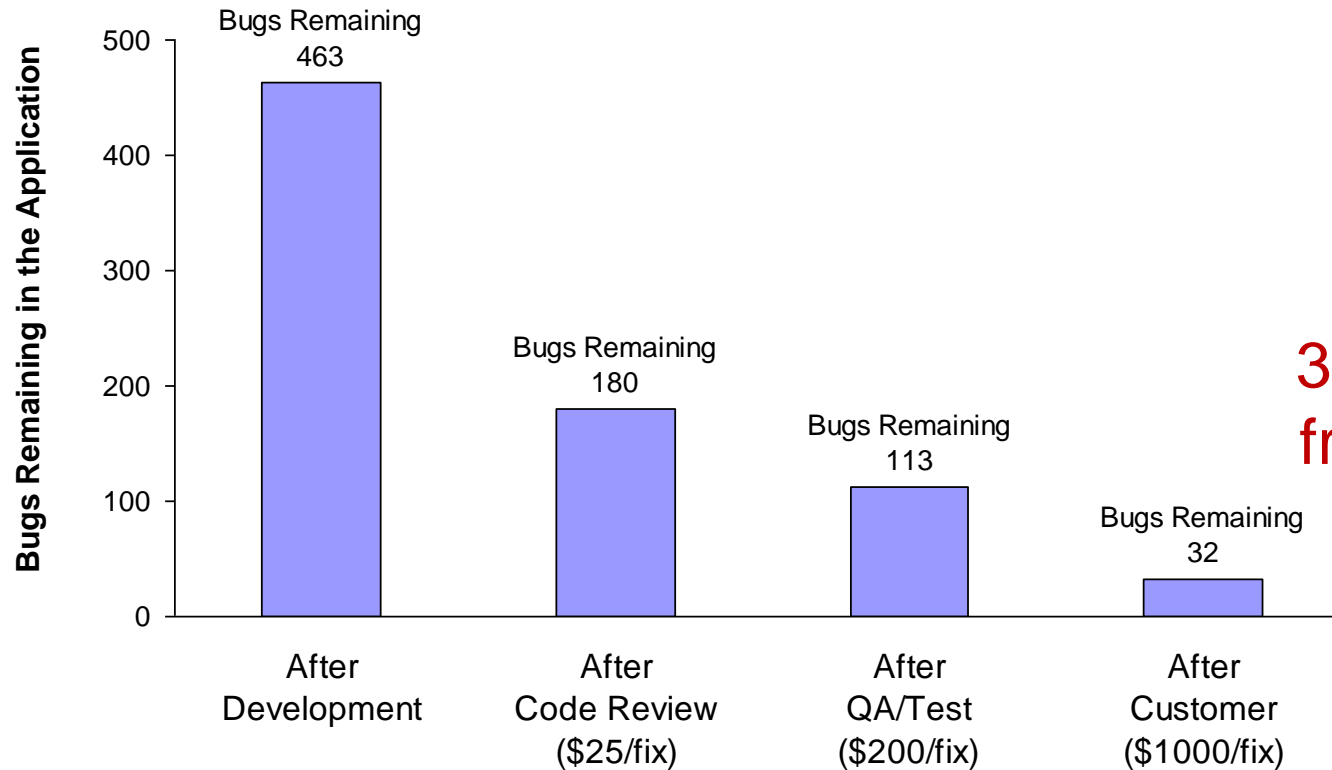


What if we had Peer Review?

Cost of fixing bugs: \$174k
+ Cost of 194 latent bugs: \$194k

Total Cost: **\$368k**

After Code Review



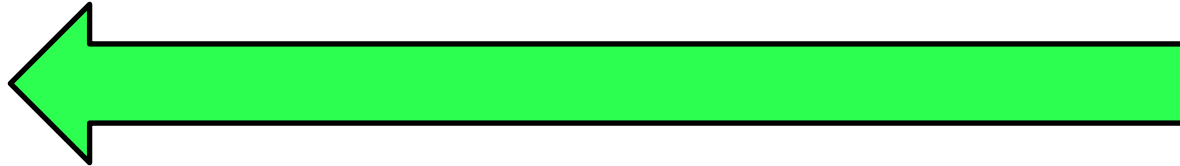
32, down
from 194

Cost of fixing bugs: \$120k
+ Cost of 32 latent bugs: \$ 32k

Total Cost: **\$152k**

\$152k, down from \$368k

Move the Feedback



Manifesto Principles - II

Agile processes promote sustainable development. The sponsors, developers, and users should be able to maintain a constant pace indefinitely.

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Agile processes promote **sustainable development**.
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Bus Number ≥ 2



Collective Code Ownership



Manifesto Principles - III

Continuous attention to technical excellence
and good design enhances agility.

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The Ego Effect





Continuous Learning



Doesn't code
review *require*
meetings?



Code Review *Without* Meetings

- Over the Shoulder
- Email
- Pair Programming
- Tool Assisted

What's the most
efficient use of
time?



Cisco® MeetingPlace® Case Study



3,200,000 lines of code

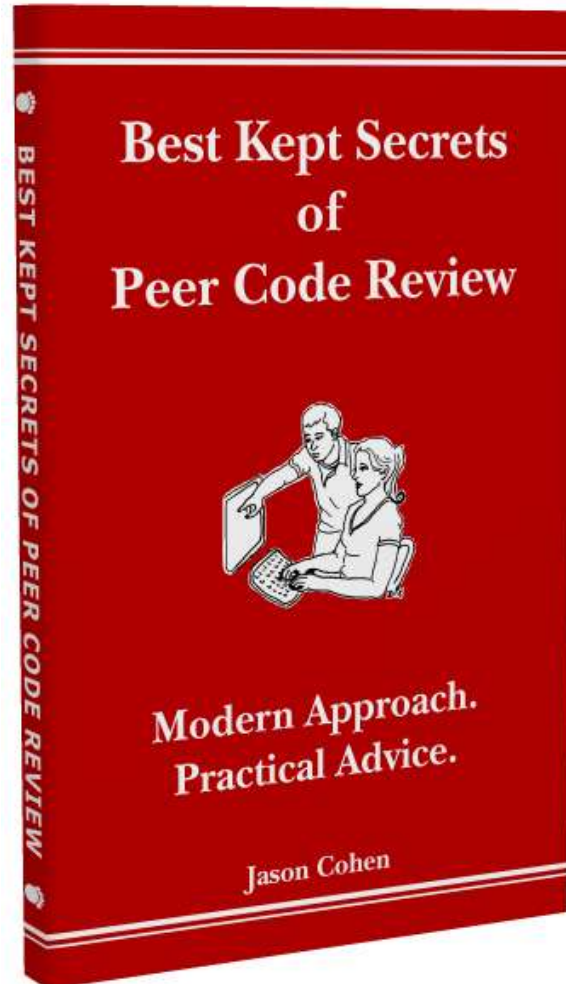
2,500 reviews

50 developers

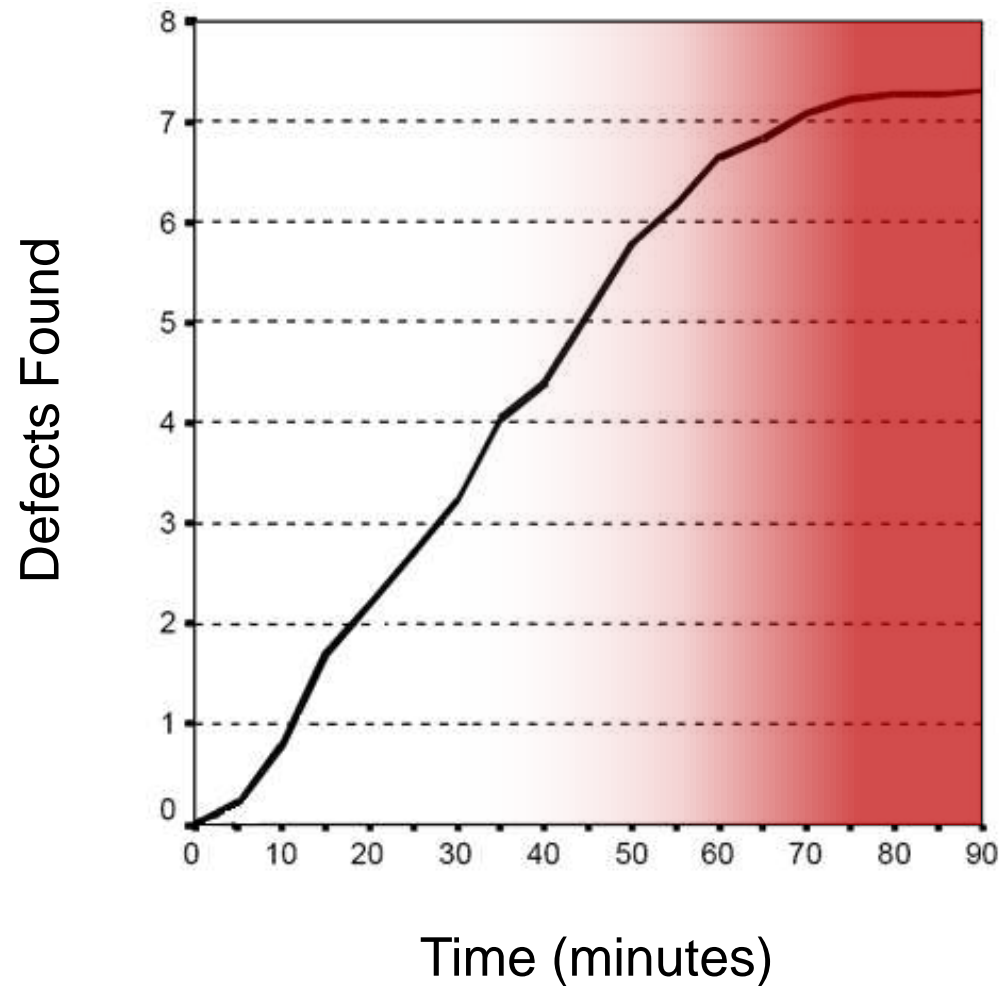
10 months

San Diego, Bangalore, Budapest

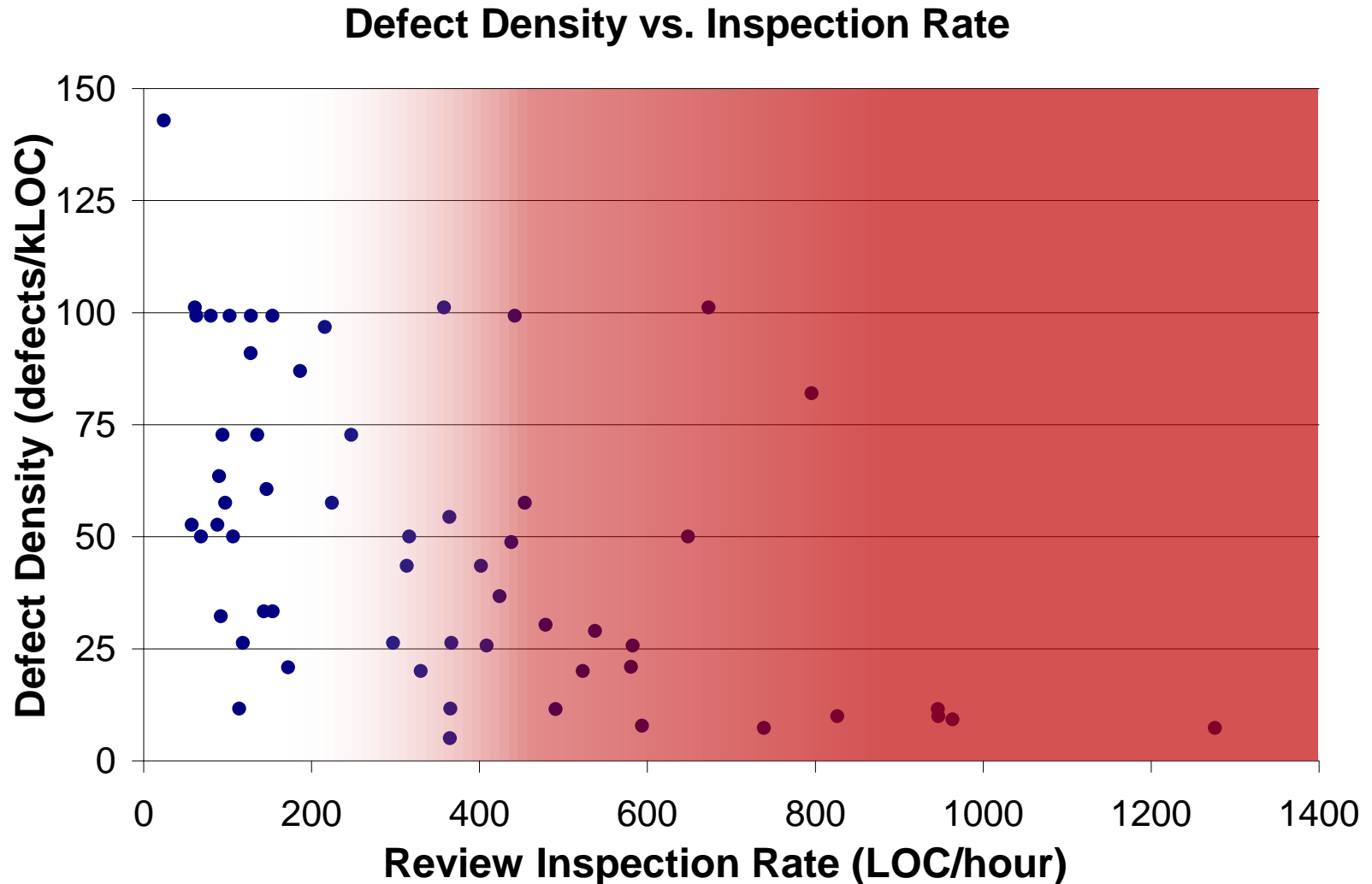
CodeReviewBook.com



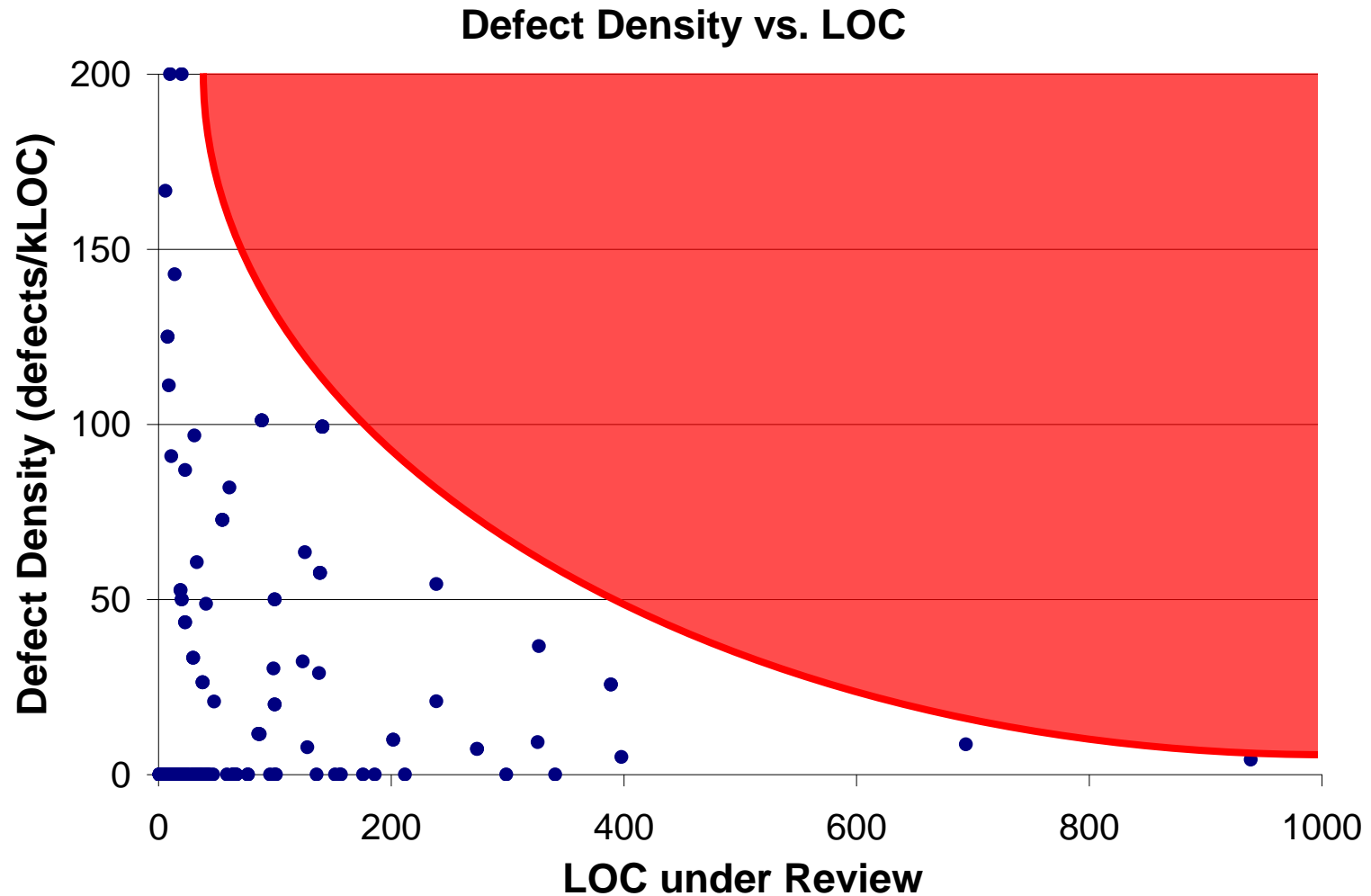
60-90 minutes max



Go slowly: 200-500 LOC/hour



Not too much: 200-400 LOC



Properly Adjusted, Code Review *is* Agile





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