

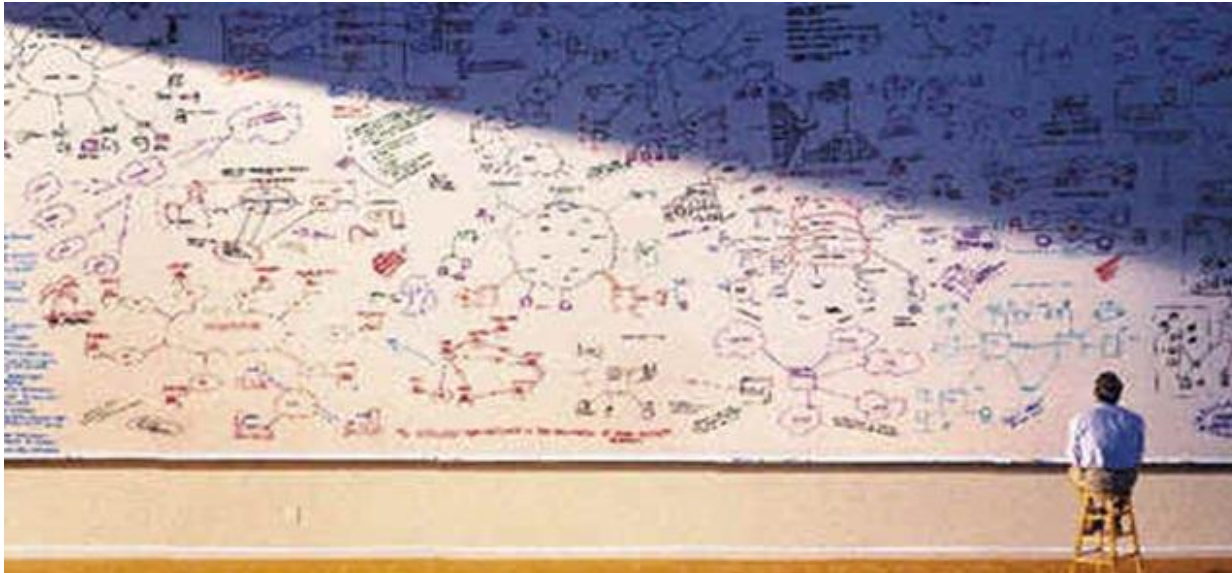
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Evolution of Object Oriented Coupling Metrics: A Sampling of 25 Years of Research



“We need to reduce complexity and increase maintainability”

But...what metrics do we have to quantify these?



10625 results from IEEE Xplore

247 results from ACM

27300 results from Google Scholar

42510 results from Science Direct

> 2010

Cognitive Coupling

Coupling for Security

Conceptual Coupling

Coupling for Component Identification



2000 - 2010

Dynamic Metrics
Arisholm

Static vs. Dynamic?



Case Studies
(Fault proneness, Maintainability)

1990 - 2000

CK
R. Martin

Mood
Briand



Meta-Models
Frameworks
Taxonomies

How to select the right coupling metrics?

Which are the “best” ones for a given context?

An index of metrics is still missing!

The technology evolved...and so did the coupling (?)

Do we need more research?

Are we measuring coupling from the ivory tower?

Are OO coupling metrics used in the industry?

(not really, according to our experience)