

Qualities of a Highly Effective Architect



Venkat Subramaniam

venkats@agiledeveloper.com

[@venkat_s](#)

A woman with her hair in a bun, wearing a black long-sleeved shirt, is leaning over a desk and writing with a white pen. The desk has several sheets of paper, including one with a pink drawing. In the background, another person is visible, and there is a window with greenery outside. The word "Architect" is overlaid in white text on the image.

Architect

A young man with short brown hair and black-rimmed glasses is sitting on a bench. He is wearing a blue button-down shirt and dark blue jeans. He is looking down at a notebook he is holding in his lap, with a pen in his right hand as if writing. The bench has a yellow section with a circular pattern and a grey section with a hexagonal pattern. The background is a dark, textured wall with some light filtering through. The text "What comes to mind when you hear the word Architect?" is overlaid in white on the image.

What comes to mind when you hear the word Architect?



I am the Architect, who created the Matrix...

Who Needs an Architect?

Martin Fowler



andering down our corridor a while ago. I saw my colleague Dave Rice (architect.) However, as so often occurs, inside the blighted cynicism is a pinch of truth. Un-

A photograph of a standard 12-egg carton filled with brown eggs. The carton is made of light-colored cardboard and is set against a dark green background. The text "12 Qualities" is overlaid in the center of the image in a white, sans-serif font.

12 Qualities



Be a Mentor,
Not a Tormentor

Knowledge is a wealth that
grows when given





Criticize
Ideas,
Not People

Architecting is evaluating
tradeoffs

Debating with Knives





Guide,
don't dictate



Venkat Subramaniam

@venkat_s



Two sets of people scare me: those who can't follow instructions and those who can only follow instructions.

A photograph of a large, natural rock cave. The cave's interior is illuminated by warm, golden light. A prominent circular opening in the rock wall looks out onto a bright blue sky with scattered white clouds. To the right, a lower opening in the rock provides a view of a beach and the ocean. The water is a vibrant turquoise color, and waves are breaking on the sandy shore. A person in a blue shirt and shorts stands on the beach in the lower-left foreground, providing a sense of scale to the massive cave structure.

You may discover things
from this experience too

A photograph of two women in a dimly lit office environment. The woman on the left has dark hair and is resting her chin on her hand, looking towards the right. The woman on the right has long blonde hair and is looking directly at the camera with a serious expression. In the background, another person is visible working at a computer. The overall mood is professional and focused.

Practice Collective Ownership



Reduce Truck Factor



Venkat Subramaniam

@venkat_s



I know of only one way to write readable code—ask a colleague to read it.

1:36 PM - 8 Apr 2015



Allow Developers
to Figure It out

It should be safe to be honest



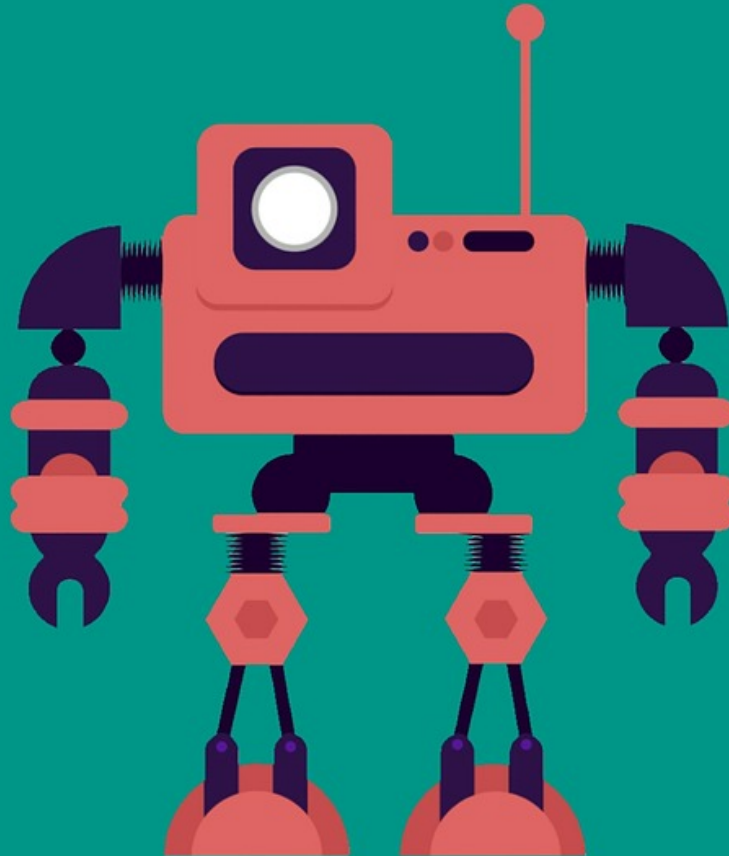


Time box efforts



Focus on
outcome,
not process

Prototypes beat any arguments





Gain domain
expertise

Extensible?





Three kinds of people

Those who know:

software but not domain

domain but not software

both software & domain

let's politely ignore the 4th group



Learn to
Unlearn



Learning is relatively easy when
compared to unlearning

Unlearning is a deliberate activity



Diversify your
Knowledge
Portfolio

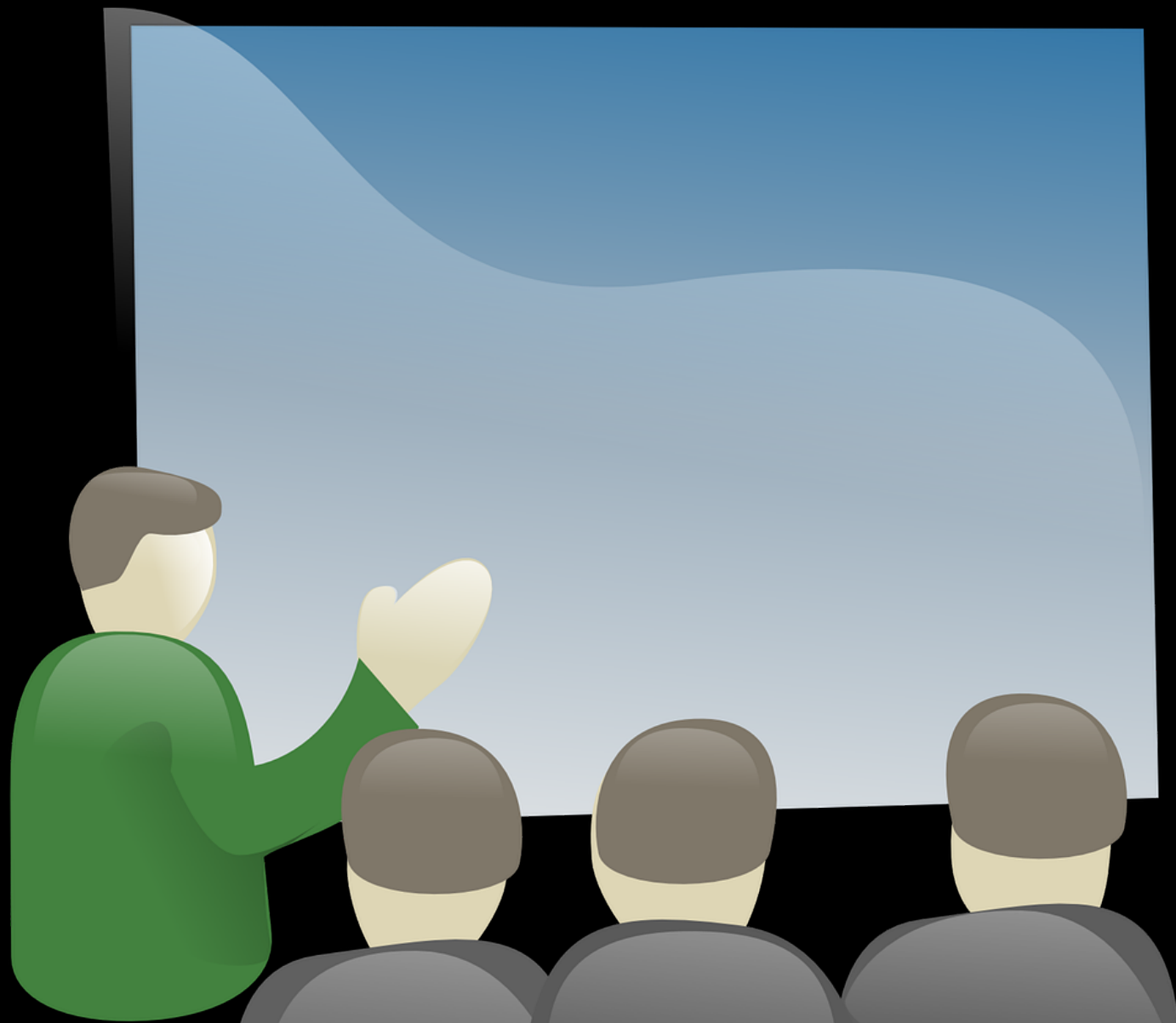
Pragmatic Programmers:
"We should learn at least one new
language each year."

The amount of time you need to learn something new is inversely proportional to the number of different things you've learned in the past few years.

Learning happens in deltas



Lead by
example



Architectural committee is where
innovation goes to die.

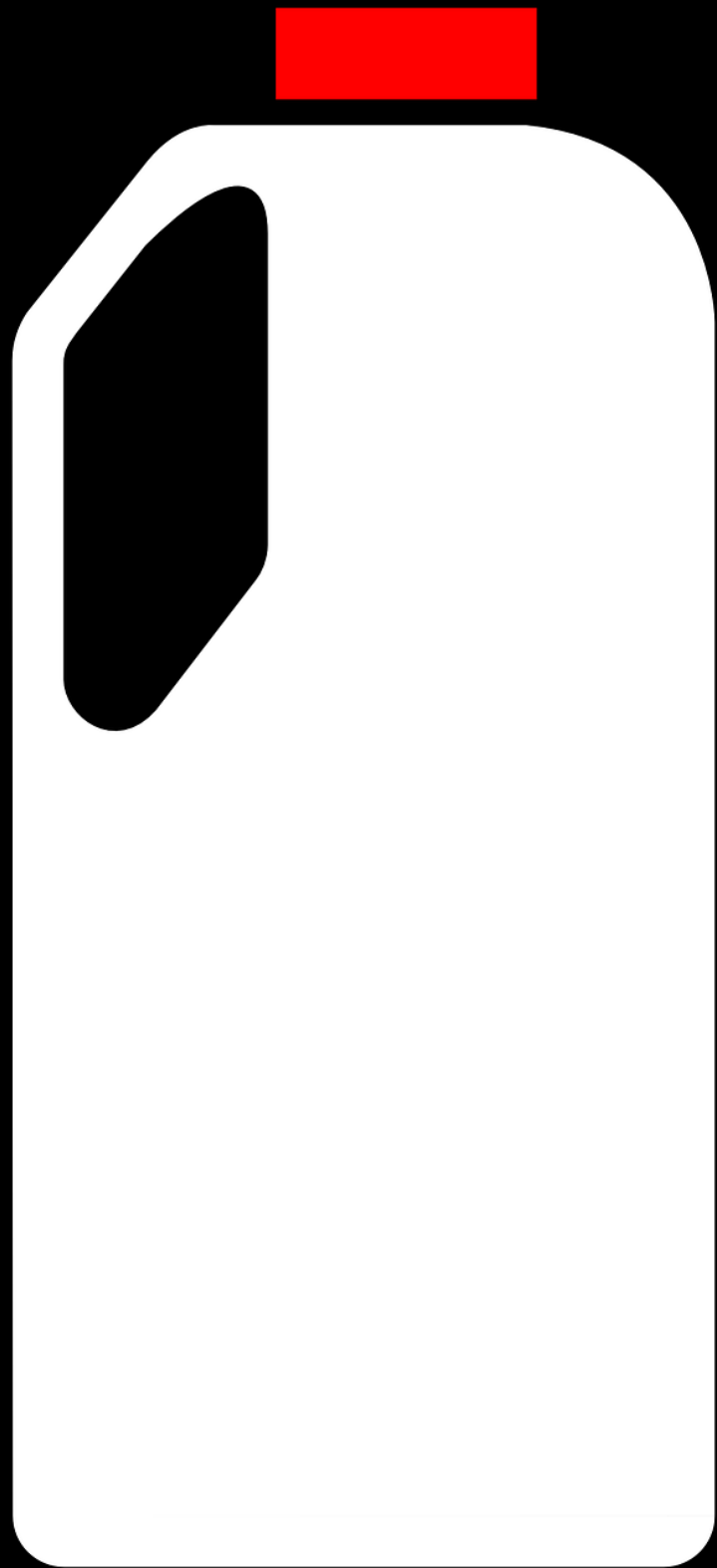


A Good Architect Practices
what they Preach

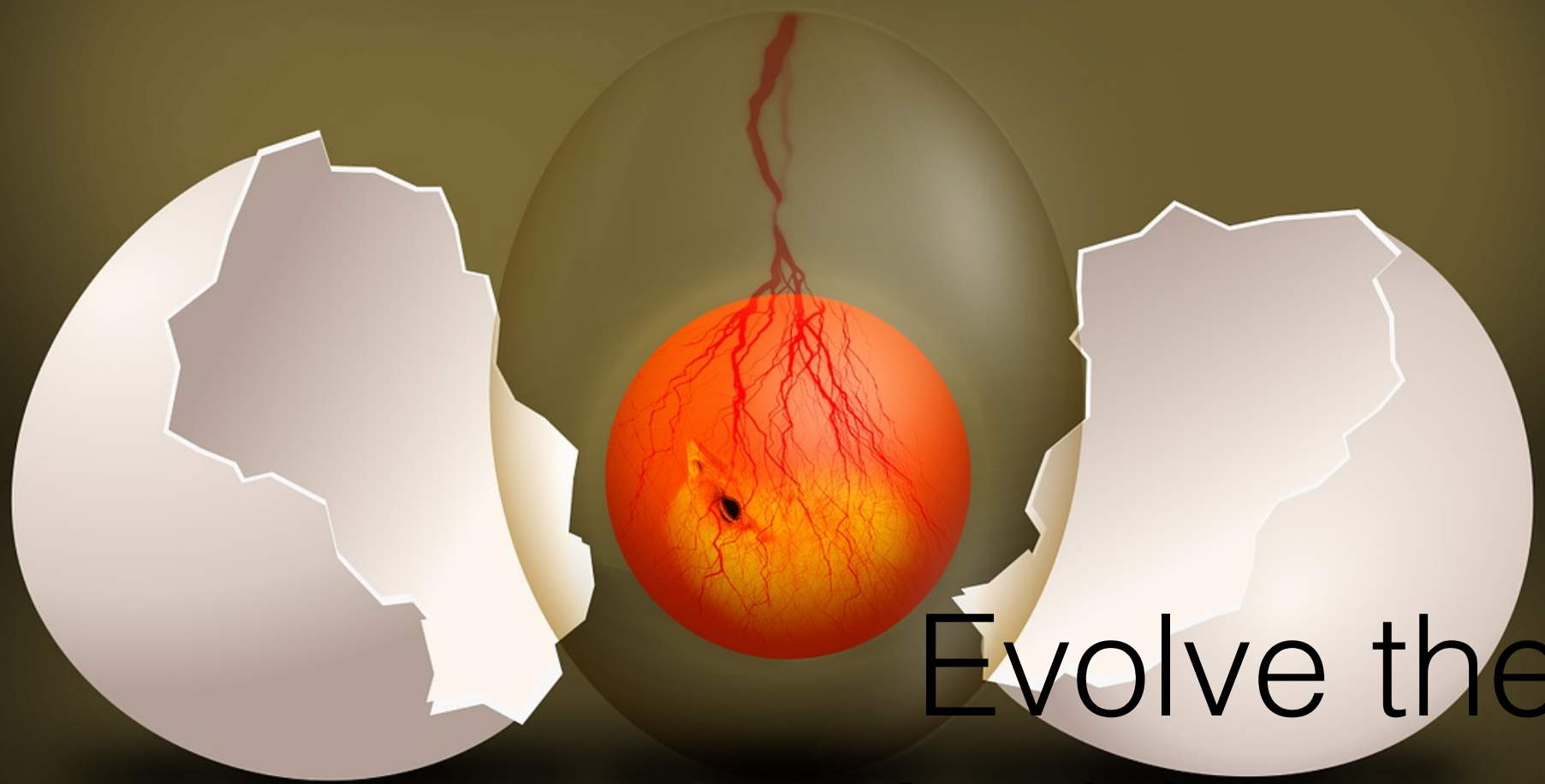


Write
Code

Avoid being a
Powerpoint Architect



Every technical
decision should
have an
expiration label.



Evolve the
Architecture

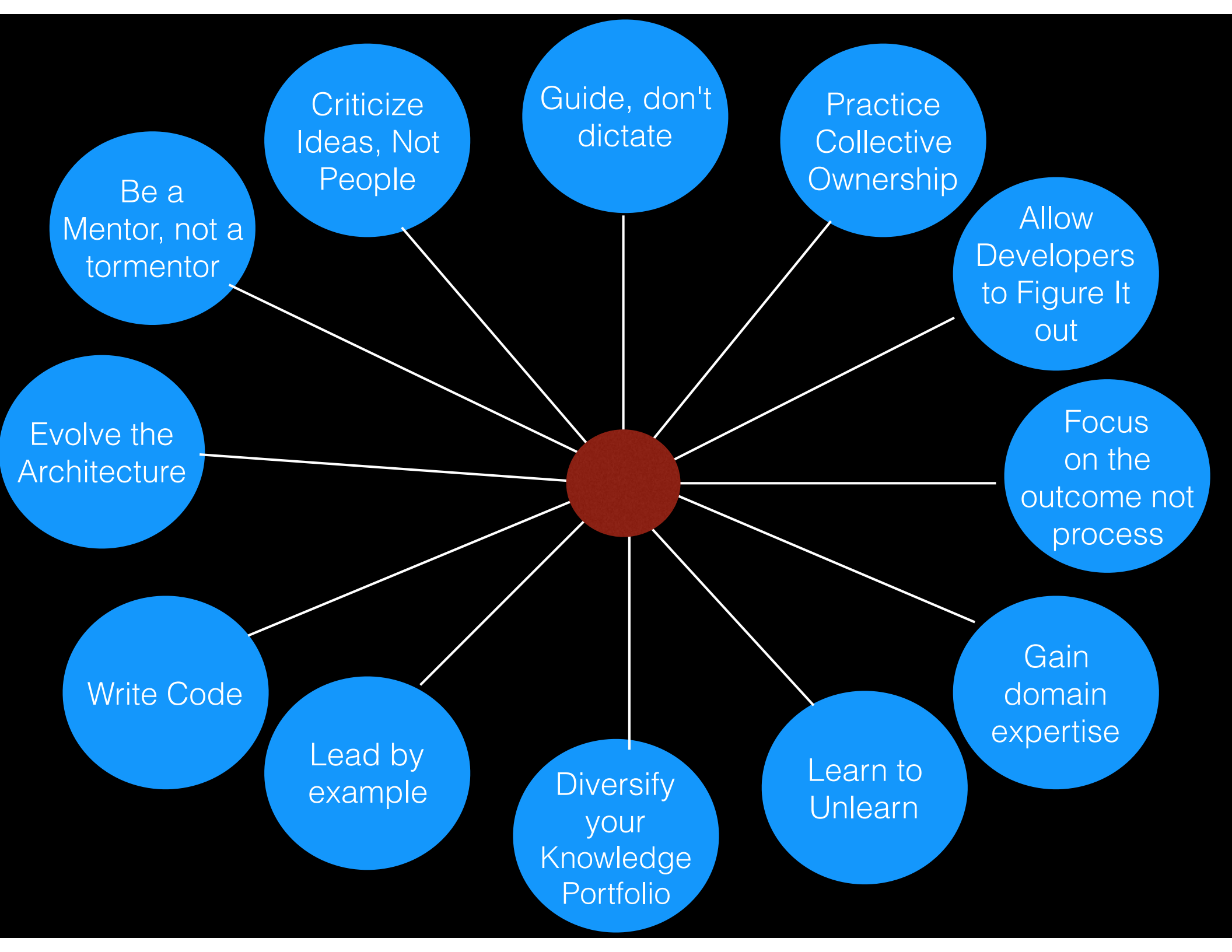


Mention % of confidence
in the architecture



The confidence in architecture
should increase with the knowledge
of the application

Use the tracer bullet approach



<http://agiledeveloper.com/downloads.html>

Thank you

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@venkat_s