Thursday, October 13

Announcements

Read No Silver Bullet by Brooks for Tuesday

Levels of Ignorance

Importance of Ignorance

- Everyone is ignorant about something-- often many things
- The first step in becoming an intelligent ignoramus is to understand ignorance

























Reducing 10I

I have the question

- I either know how to get the answer to it (I have 00I about the activity of answer acquisition) or I do not know how to get the answer (I have 10I about answer acquisition).
- We can classify very high-level, open questions (such as, "What are the requirements for this system?") as being typequestions. They are the typical questions posed by meta processes. They are generic, vague, context-free, and domain nonspecific. They may also not be very useful in some situations because they will often generate vague (context-free) answers. While such questions are helpful when I do not have a context to ask specific questions, they do not usually produce usable engineering answers. The most useful output from a type-question is often another more-specific question. If I find I am using many typequestions, it usually indicates that I have significant amounts of 2OI.

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Reducing 30I

- Understand the limitations of process.
 - Detailed, granular processes are the most useful, although they are usually only useful across restricted problem spaces. The reason they are useful is that the processes contain the context of the problem. I call high-level, general processes that do not contain the context meta processes. They are usually not very useful in obtaining definitive answers and instead tend to generate more guestions.
 - Waterfall: Requirements, Design, Code, Test
 - The process at the life cycle level does not tell us exactly what to do, and when and where to do it. It does not tell us what kind of requirements to get and from whom. This is because generically we do not know what to do that would be effective; because we do not know what questions we are trying to answer, until we start operating on this system. This limitation is inherent to all processes.

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Slide































