# The Beginner's Mind 

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## ThoughtWorks ${ }^{\circ}$






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"In the beginner's mind there are many possibilities, in the expert's mind there are few"







## Learning Models

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## Shu Ha Ri

## Kolb's Experiential Model

Dreyfus Model of Skills Acquisition

Conscious, Unconscious
Competence, Incompetence

## Learning Models

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## Kolb's Experiential Model



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# Dreyfus Model of Skills Acquisition 

## Hubert Dreyfus

## Stuart Dreyfus










## "Competent"






The Story of Success

$$
\begin{aligned}
& \text { M A L C O L M } \\
& \text { GLADWELL }
\end{aligned}
$$

\#1 bestselling author of The Tipping Point and Blink

## 10000 hours

# Outliers 

The Story of Success

Malcolm
GLAD WELL
\#1 bestselling author of The Tipping Point and Blink



## What the expert"says"

This is the way we've always done it

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## What the expert "says"

That's going to be too hard

This is the way we've always done it

## What the expert "says"



## (In the) Expert's mind









## 初

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Tip I

## You can't be an expert on everything



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## 

## You can't be an expert on everything

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Web

Lean-Agile

## Languages

NoSQL

## Mobile

## You can't be an expert on everything

REST Javascript
Web
HTML5
Crystal
Lean-Agile
Kanban
Clojure Ruby Python
Languages Scala
Java CH F\#

CouchDB


# Novice-Expert applies to skills, not people 




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## Novice-Expert applies to skills, not people

Tip 2

## 3 things you can ask...

## How can I try this safely?



How does this fit into my world?

Does that constraiht still exist?

Tip 3

## Remain curious




Mix with diverse groups

## HEURISTKS

SIMPLE RULES TO HELP US MAKE DECISIONS IF YOU KNOW Z HEURISTICS, YOU CAN COMBINE THEM TO CREATE A THIRD HEURISTIC A PERSPECTIVE ISAHEURISTIC


## PROBLEM-SOLVING

RAHK AGENTS BASED OH HOW WELL THEY SOVETHE PROBLEM INDVIDUALLY

"SMART"
GROUP

VS.


THE DNERSE GROUP OUTPERFORMS
THE SMART GRNUP MOST OF THE TIME, IF:

- THE SET IS LARGE
-THE PROBIEMIS HARD
- THE SOLVERS ARESMINGT

SCOTT PAGE III

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Tip 4

## Be wary of

## Framing Effect

## Dunning-Kruger effect Fundamental attribution error

## Loss aversion

## Confirmation bias

Bandwagon effect

## Anchoring

## Need for Closure

Post-Purchase Rationalisation

Irrational escalation
(commitment bias)

Mere exposure effect
Self-serving bias
in built biases

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## Be wary of

The Hidden Forces That Shape Our Decisions

## DAN ARIELY

Tip 5


## Taoist Farmer's Tale

## Listen carefully

## Embrace other's opinions

## Further Resources...



## Further Resources...

# Questions? 

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## ThoughtWorks

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