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## In your Agile Teams

**5 minutes: Daily stand-up**

**What did I accomplish yesterday?**

**What will I accomplish today?**

**What obstacles are impeding my progress?**

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**UI, Interface design,  
is an inexact science.**

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**How we improve usability before  
we develop the software to **avoid  
develop it and then release it  
without testing?****

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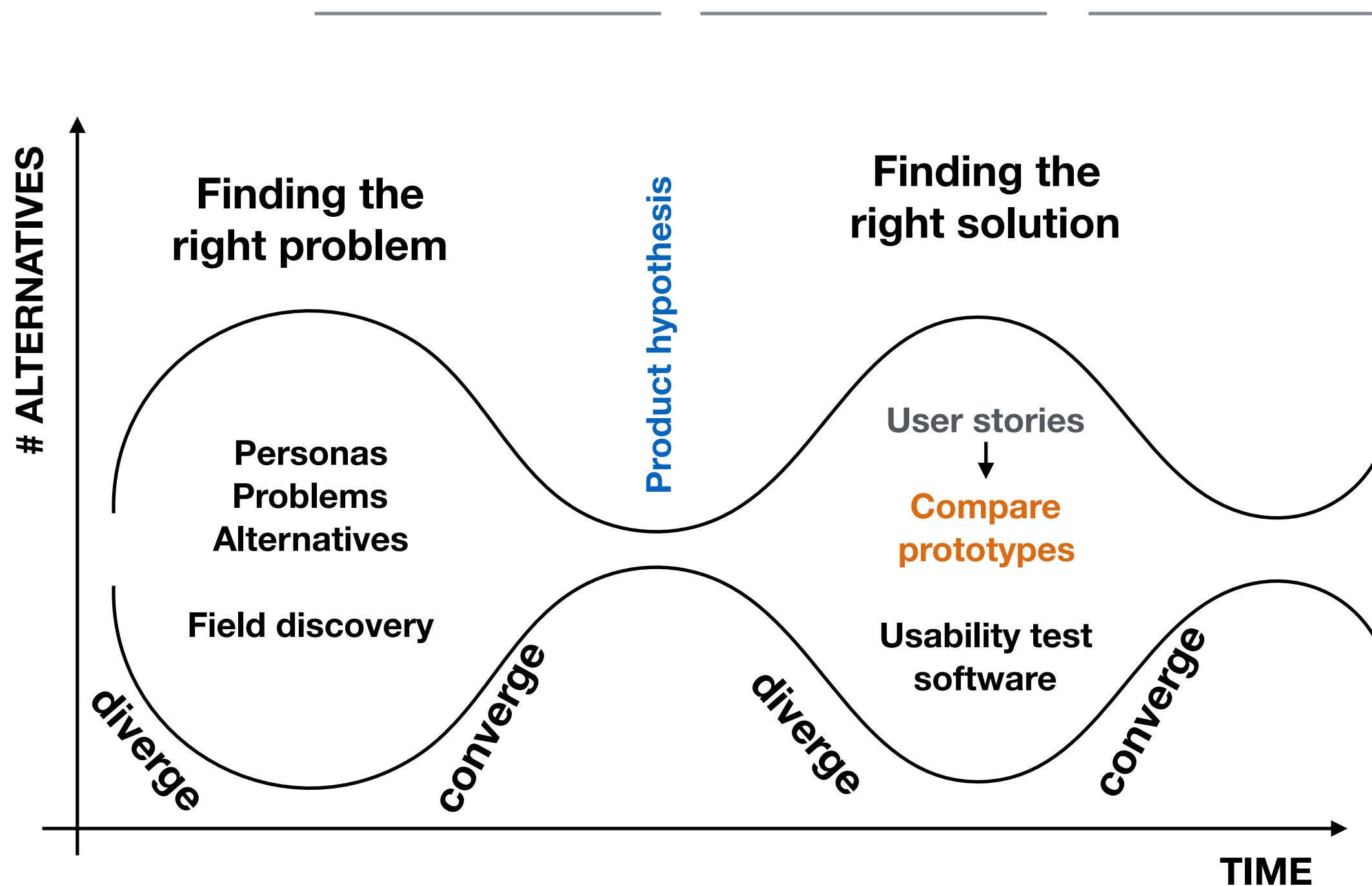
## Guiding questions:

- **Is a strong narrative (user story) guiding my work?**
- **Do the UI's affordance deliver against those narratives?**

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## Tools

- **User Stories**
- **Prototype / Wireframes**
- **Test plans**



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## What the design process is **not** about:

- Lots of colours and shapes
- Art
- Using the latest technology
- Flashy demo's
- Doing what everyone else is doing
- Doing what the users say
- Always having the answer

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## What the design process **is about**:

1. Focus
2. Consistency
3. Experimentation

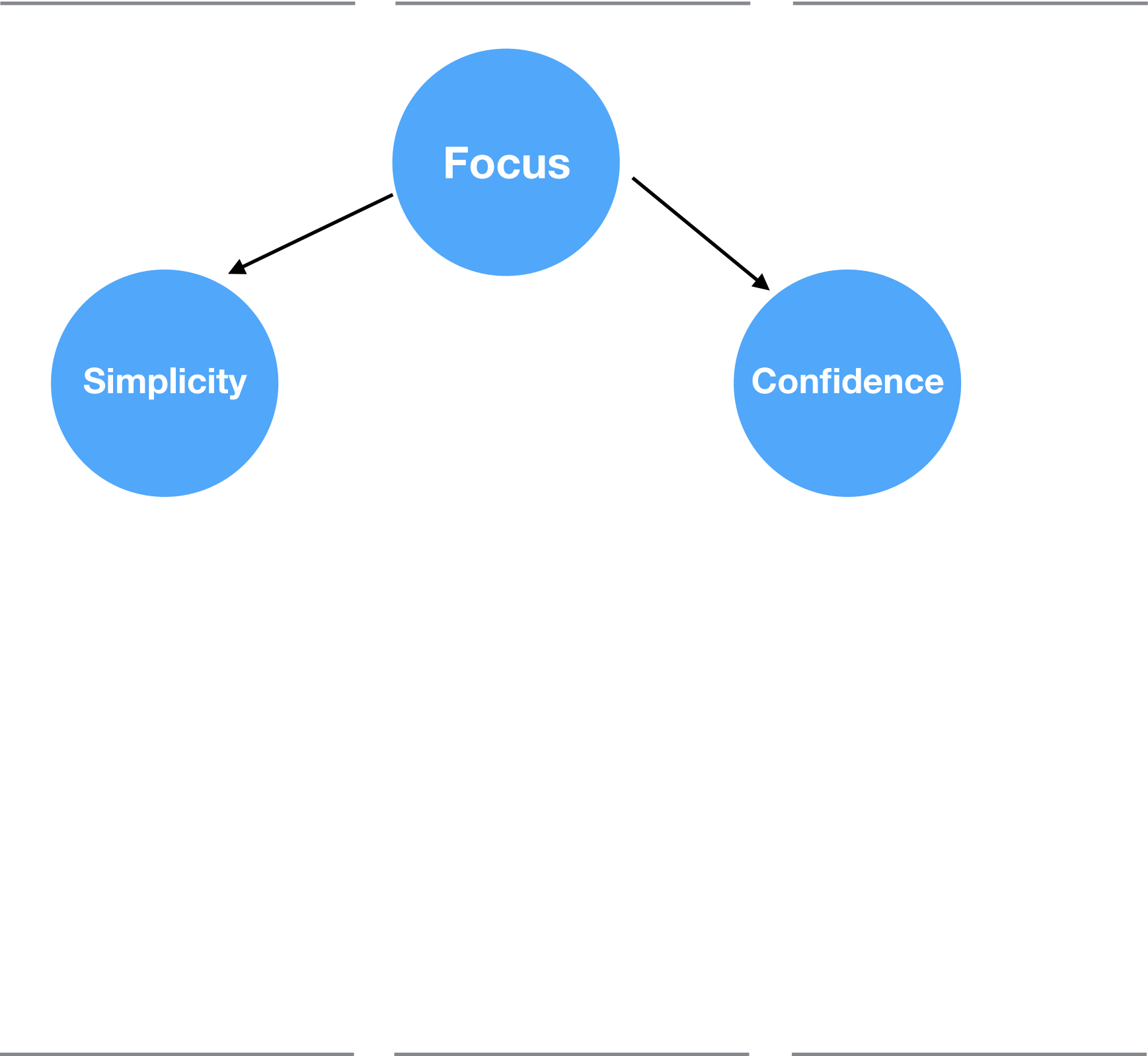


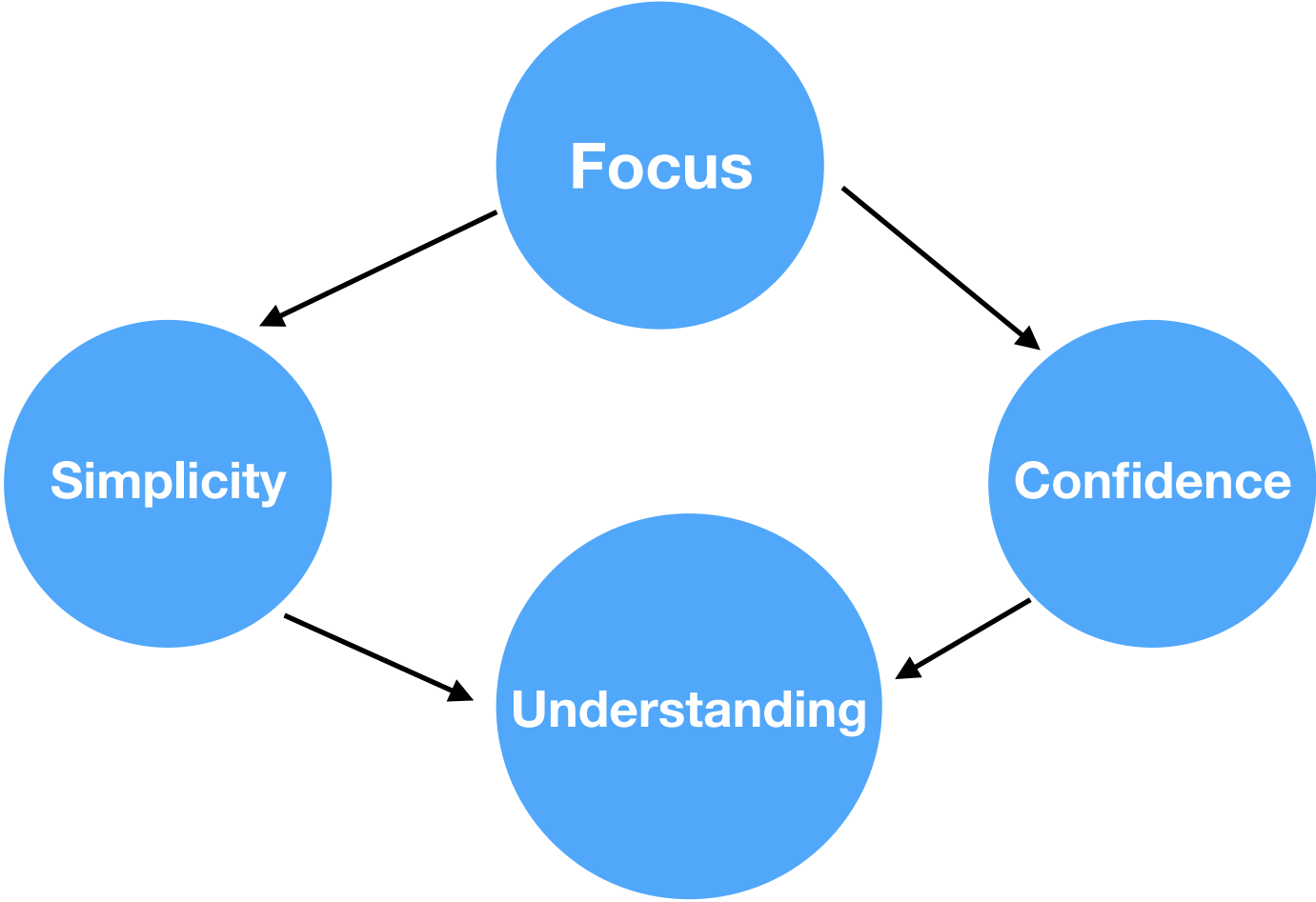
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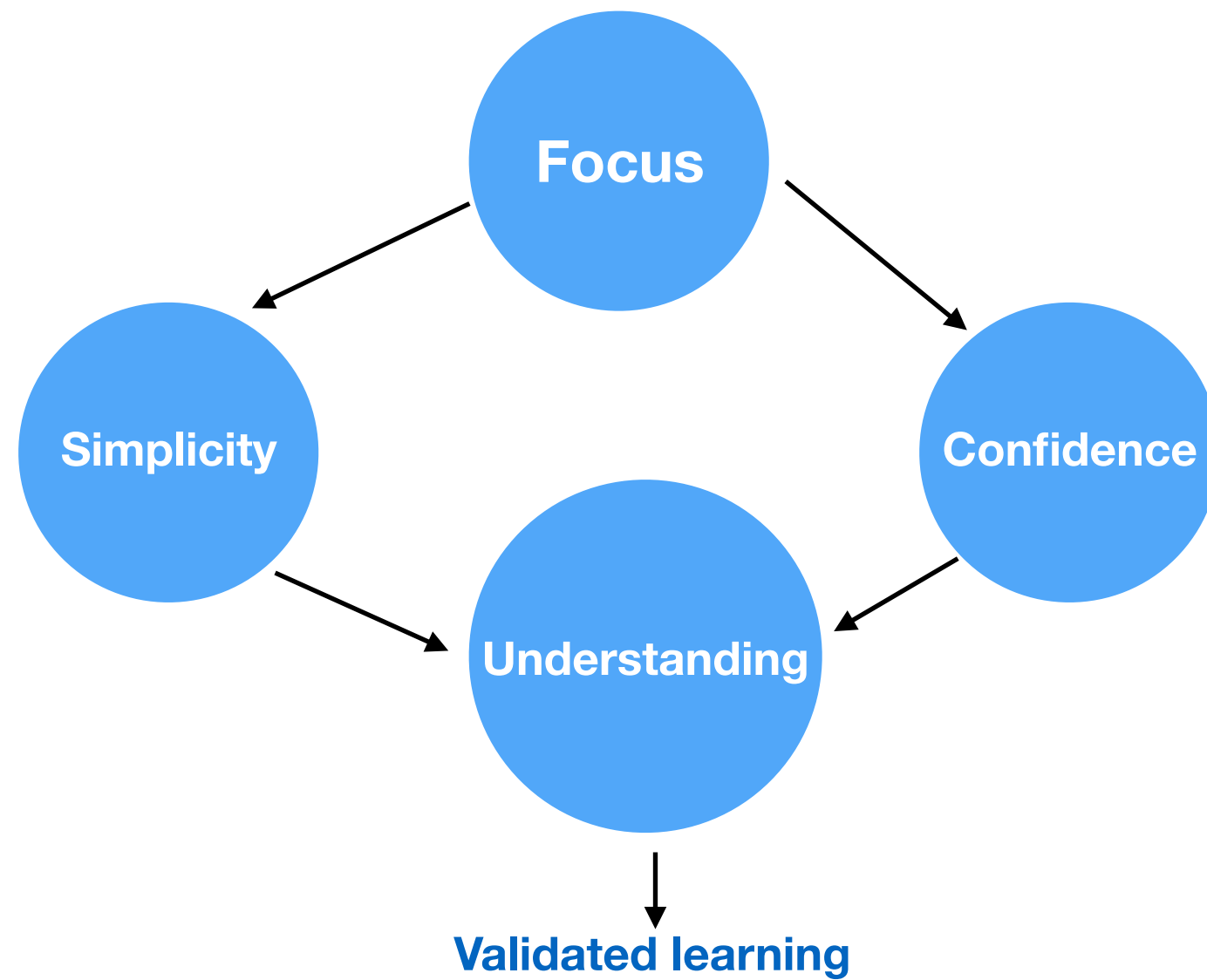
## 1\_ Focus

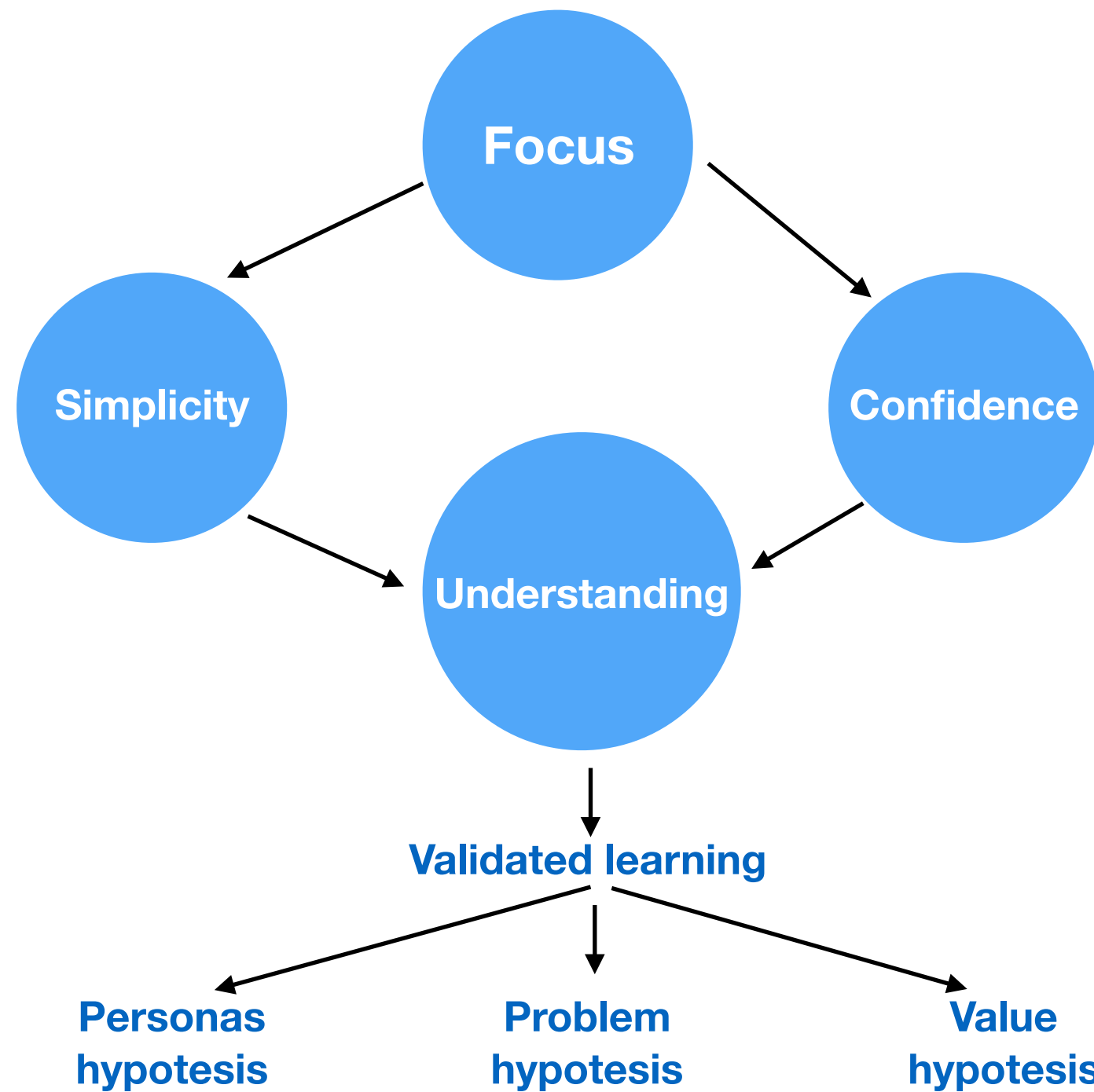
“Keep it simple”

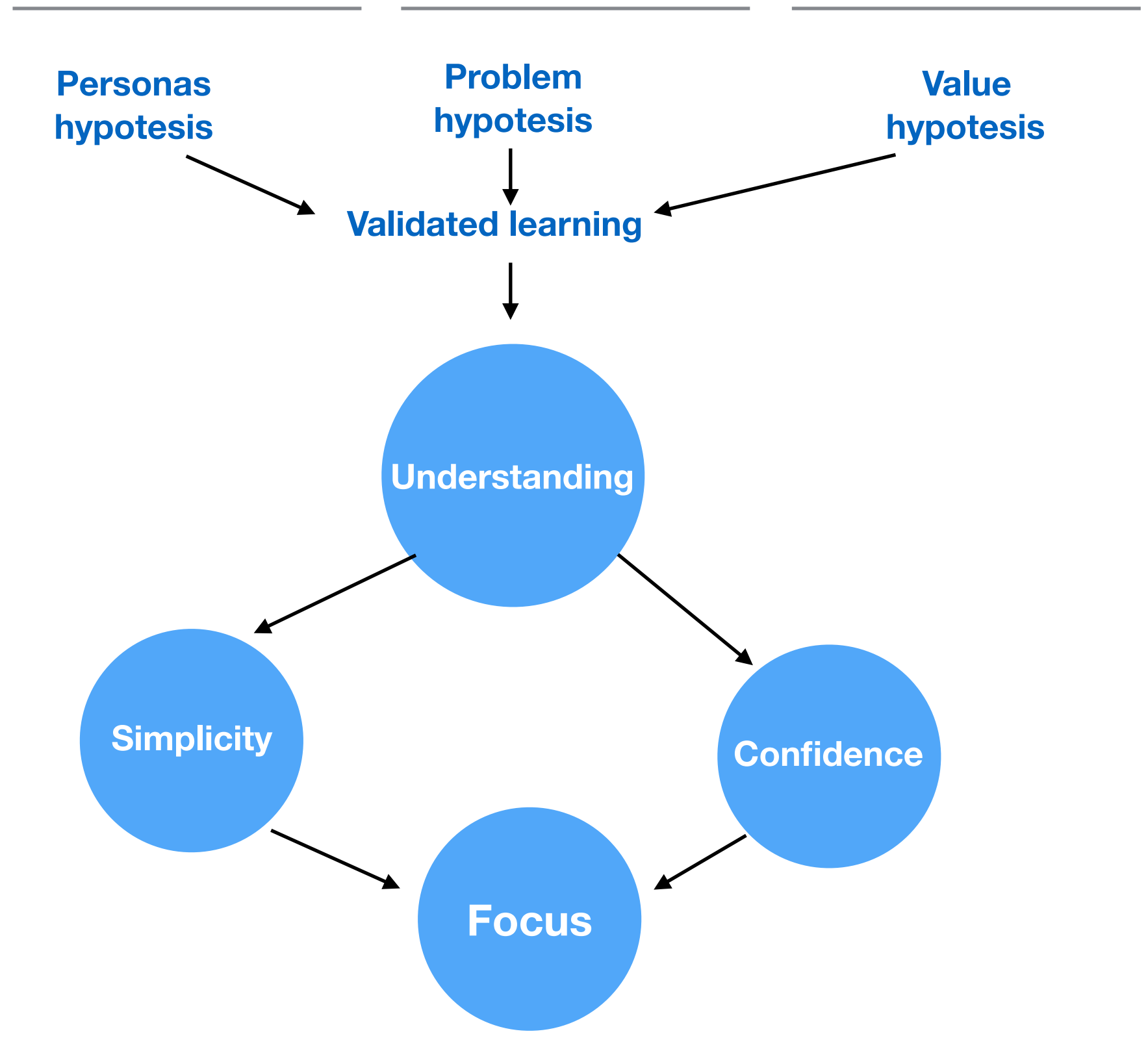
...ok, but how?











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## What the design process **is about**:

1. Focus
2. Consistency
3. Experimentation

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## 2\_ Consistency

- **Icons:** If a magnifying glass means “search” it can’t also mean “zoom”
- **Colours:** once you decide a palette (set of colours) the need to use always that so that the users will always respond to it.



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## Silver bullet:

There are a lot of material on existing patterns and best practices.

Icons: <https://thenounproject.com>

Colours: <https://color.adobe.com/>

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## 3\_ Experimentation

1. Idea
  2. Hypotesis
  3. Experimental design
  4. Experimentation
  5. Pivot or persevere?
  6. Persevere
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- 1. Idea** Start from validate learning on your personas, problems, propositions
  - 2. Hypotesis** Usability hypotesis + user stories
  - 3. Experimental design** Exploration, assessment, validations, test case
  - 4. Experimentation** Do the result validate or invalidate your hypothesis?
  - 5. Pivot or persevere?** Yes = go to 6 | No= go to 1
  - 6. Persevere** Experiment prove hypothesis
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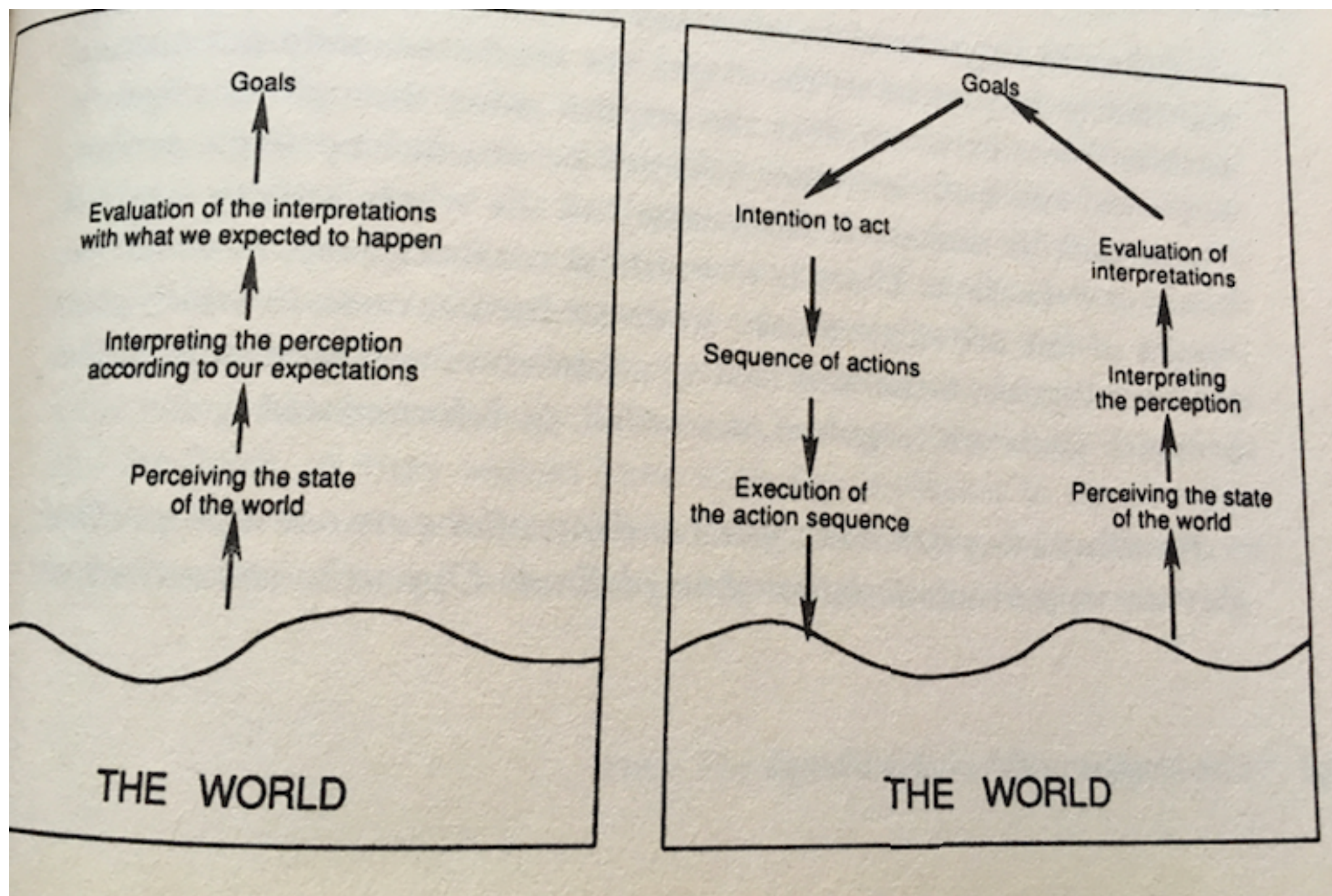


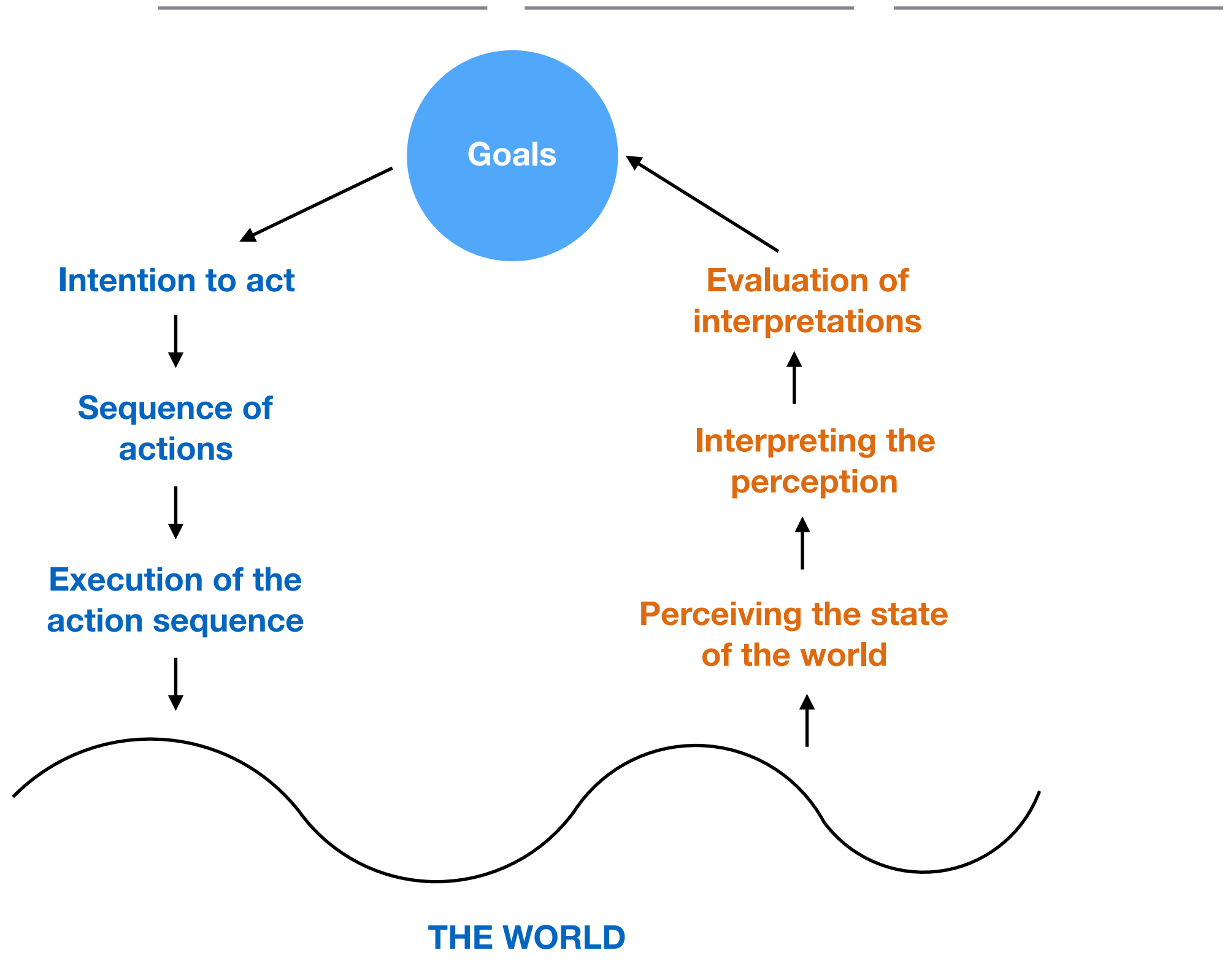
A photograph of Donald Norman, an older man with a grey beard and glasses, wearing a dark suit jacket over a light blue shirt. He is gesturing with his hands while holding several sheets of paper. His right hand is raised, pointing towards the right, and his left hand is holding a stack of papers. The background is dark and out of focus.

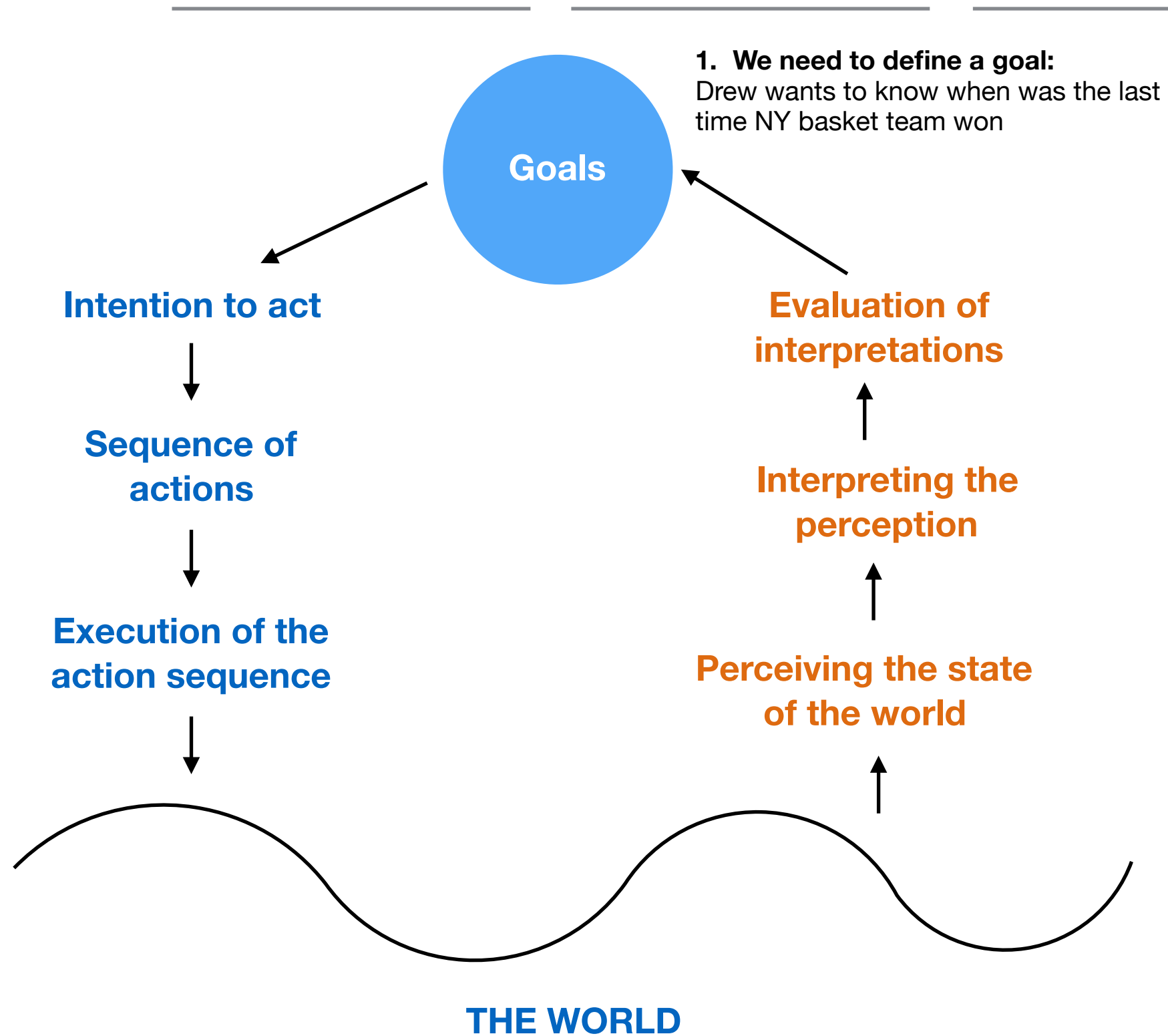
**Donald Norman**

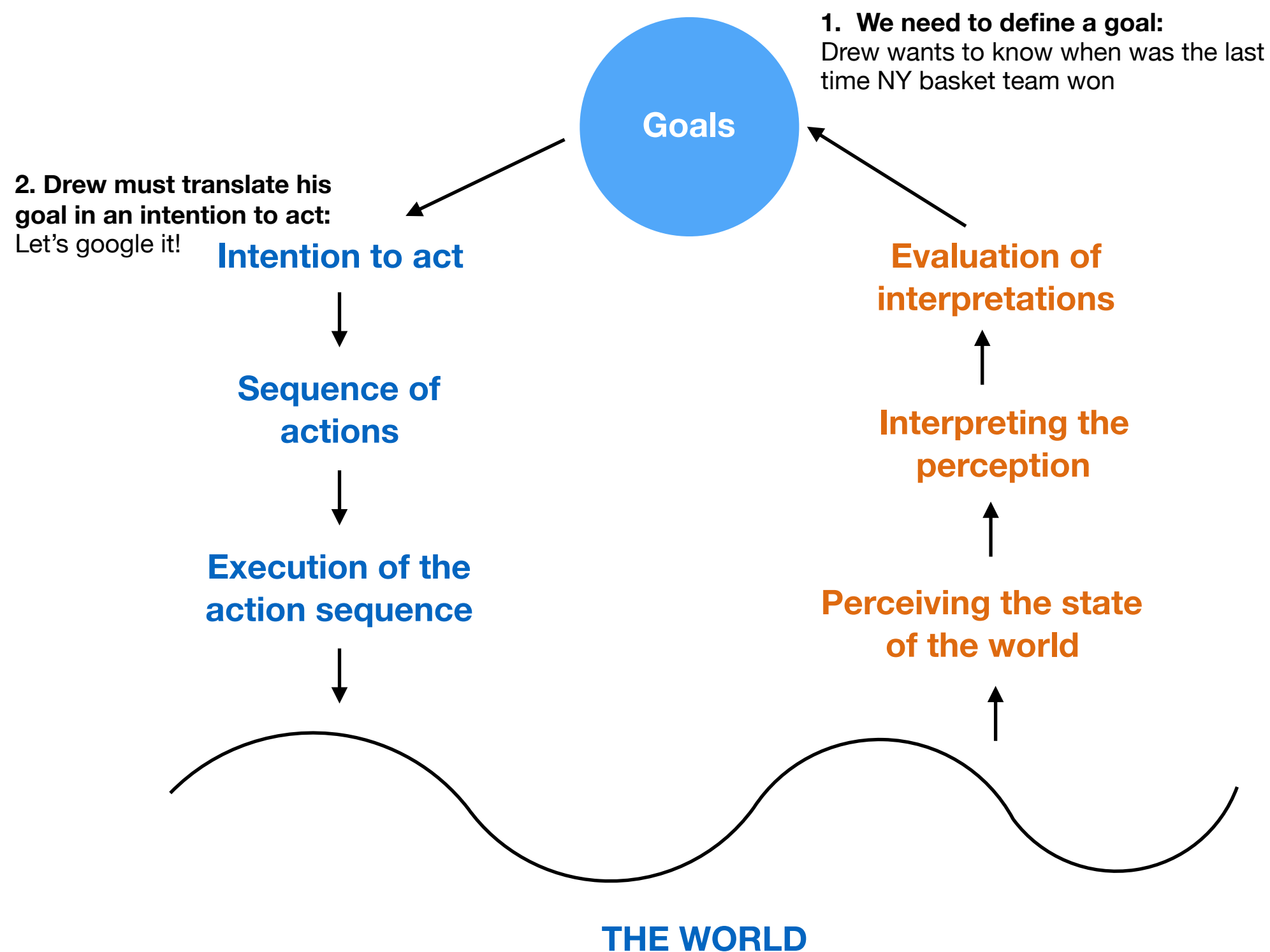
<https://www.nngroup.com>



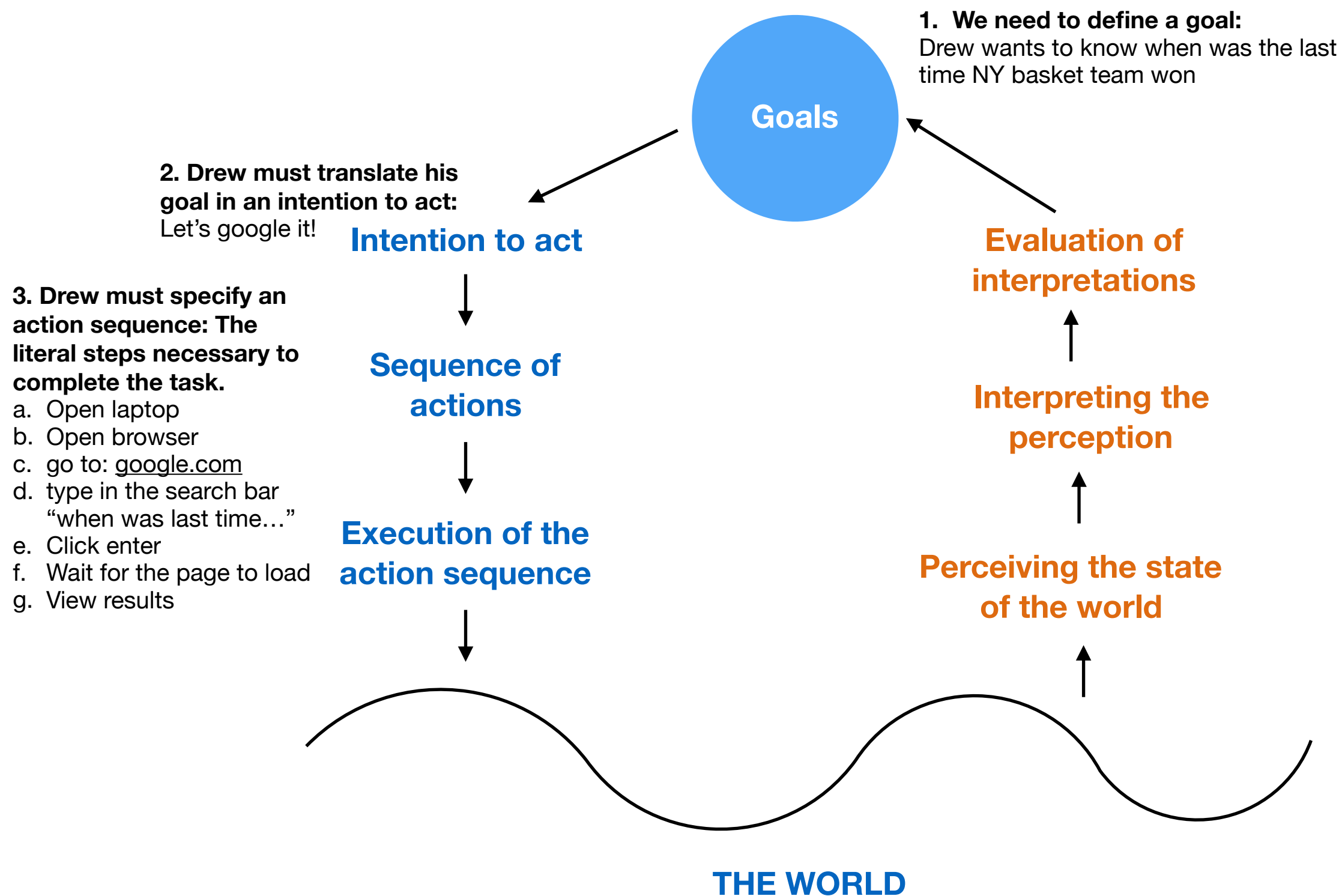


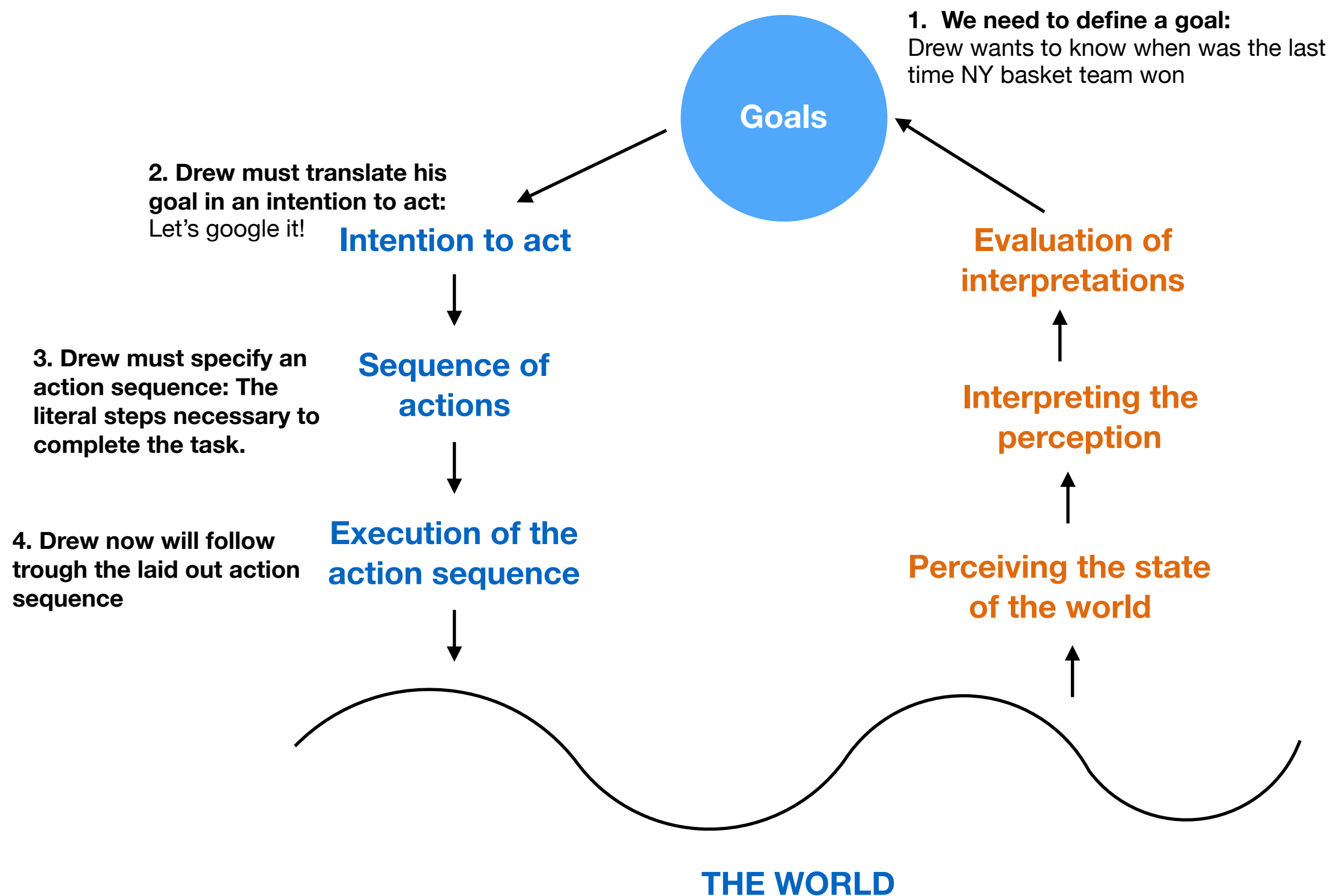


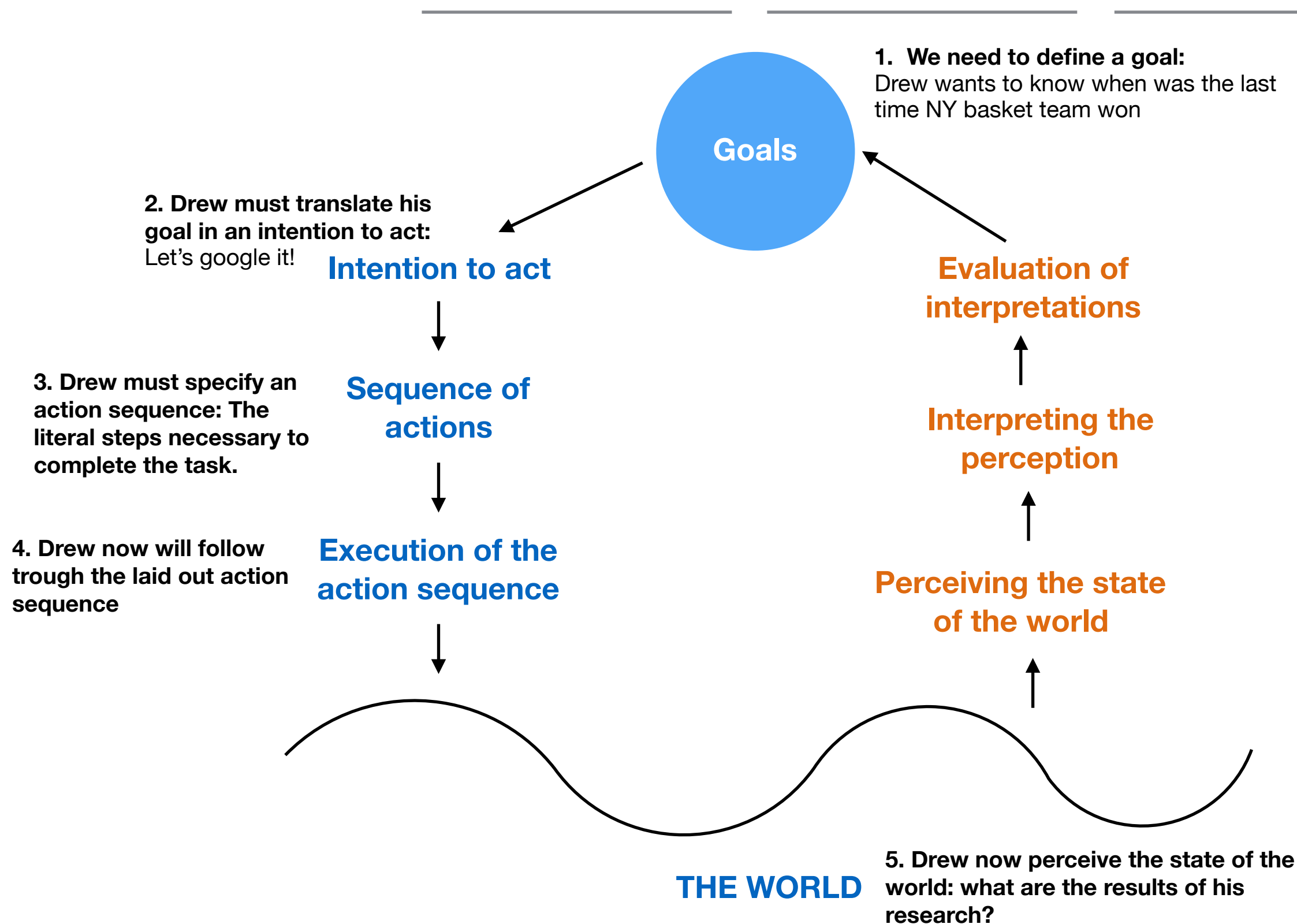


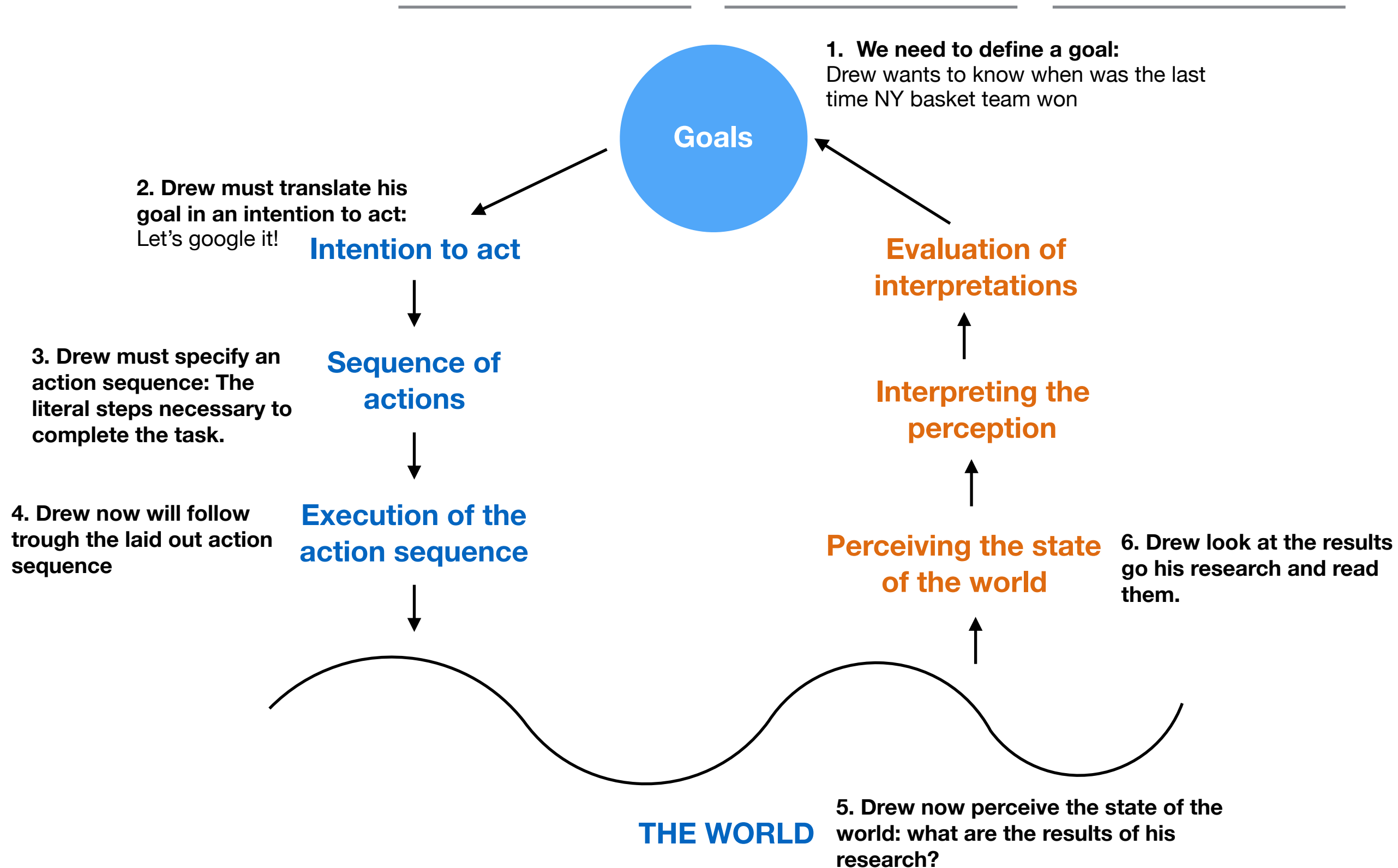


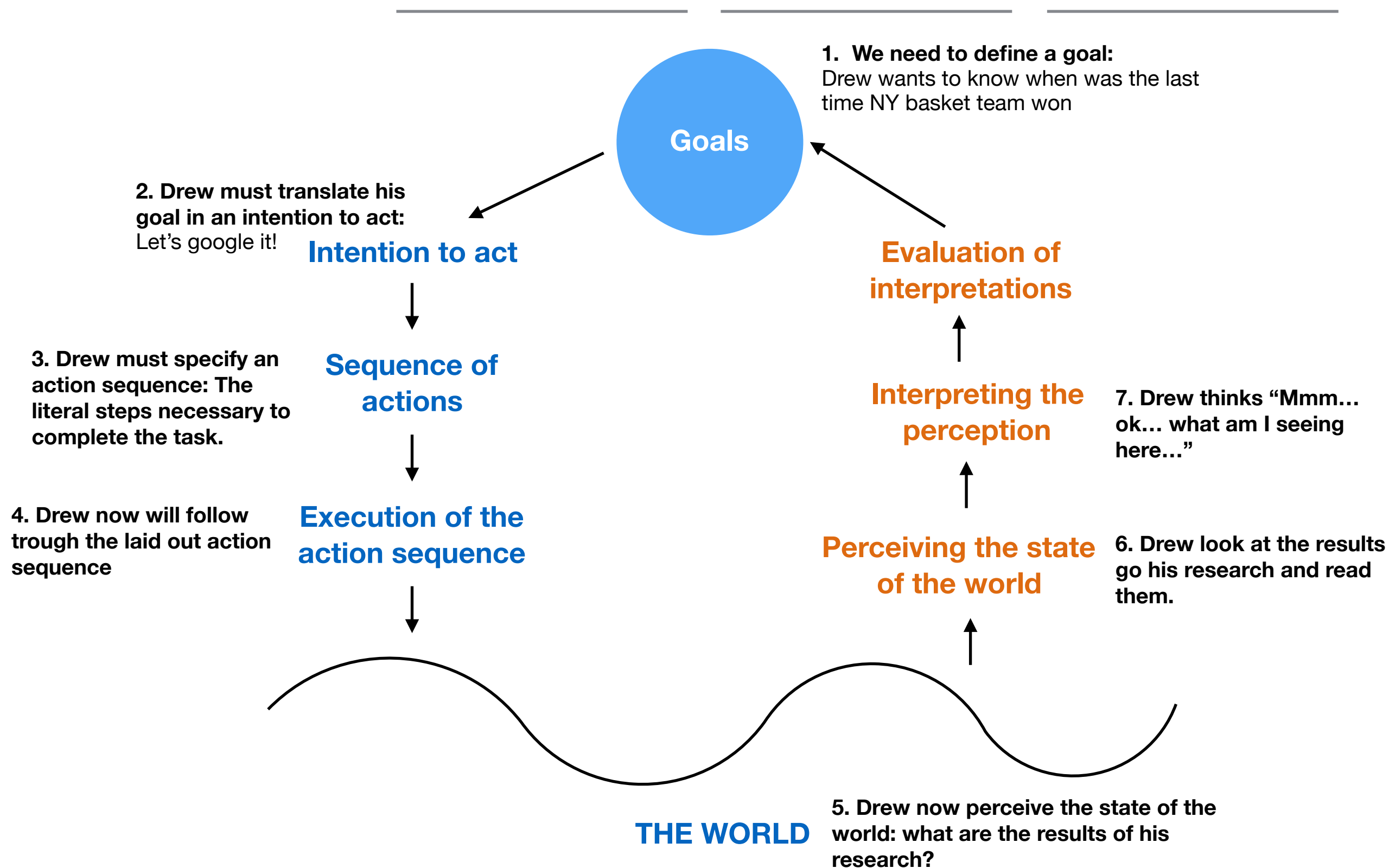


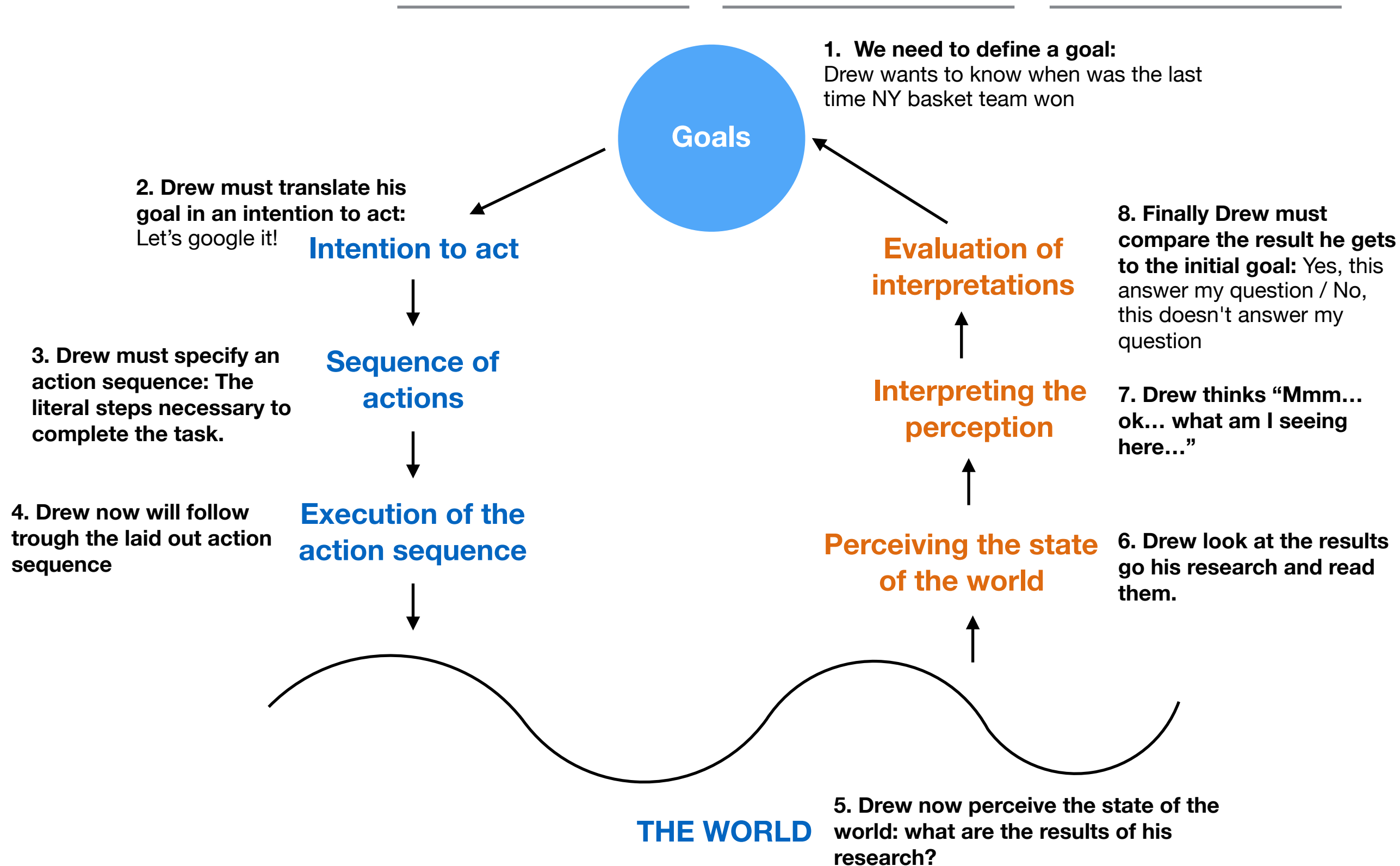












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**How many users  
do I need to test with?**

**<https://www.nngroup.com/>**

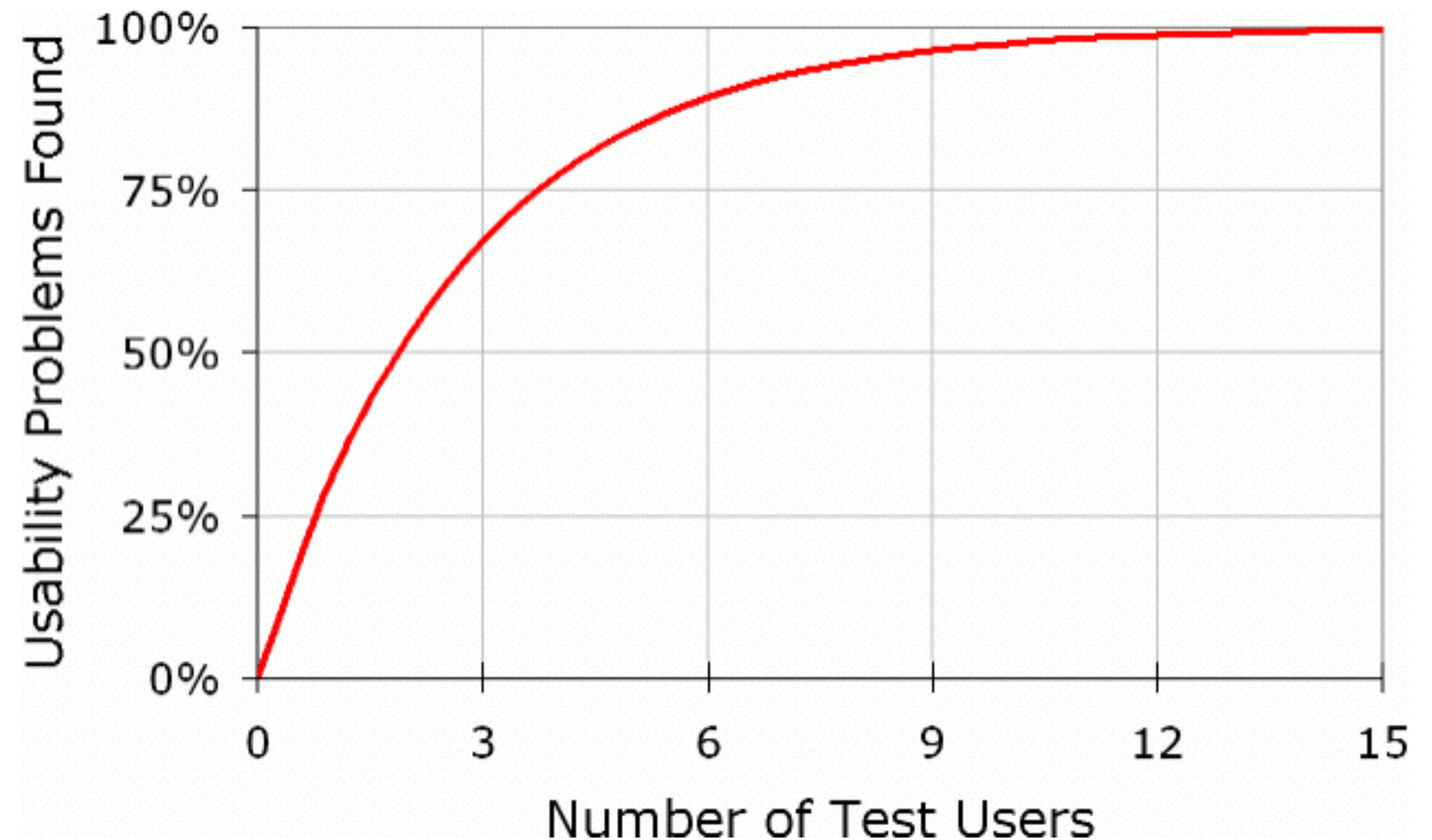
$$N (1 - (1 - L)^n)$$

$N$  = total number of usability problems in the design

$L$  = is the proportion of usability problems discovered while testing a single user

*The typical value of  $L$  is 31%, averaged across a large number of projects we studied.*

*Plotting the curve for  $L = 31\%$  gives the following result:*





Number of Users	Insights gathered
0	zero users give zero insights
1	Your insights shoot up and you have already <b>learned almost a third</b> of all there is to know about the usability of the design. <b>The difference</b> between zero and even a little bit of data <b>is astounding</b> .
2	This person does some of the same things as the first user, so there is some overlap in what you learn. People are definitely different, so <b>there will also be something new that the second user does</b> that you did not observe with the first user. So the second user <b>adds some amount of new insight, but not nearly as much as the first user did</b> .

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Number of Users	Insights gathered
3	<p>Third user will do many things that you already observed with the first user or with the second user and even some things that you have already seen twice. Plus, of course, <b>the third user will generate a small amount of new data, even if not as much as the first and the second user did.</b></p>
4 - 5 - ....	<p>Add more and more users, you learn less and less because <b>you will keep seeing the same things again and again.</b> There is no real need to keep observing the same thing multiple times, and you will be very motivated to <b>go back to the drawing board and redesign the site to eliminate the usability problems.</b></p>

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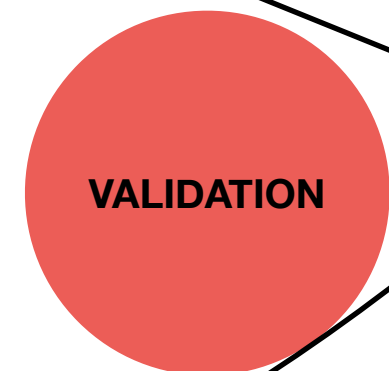
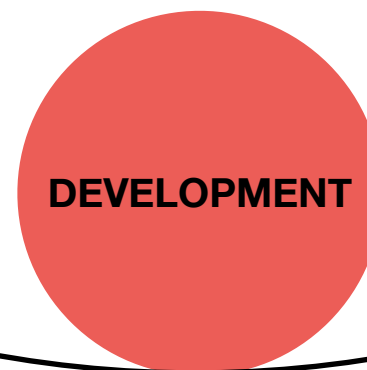
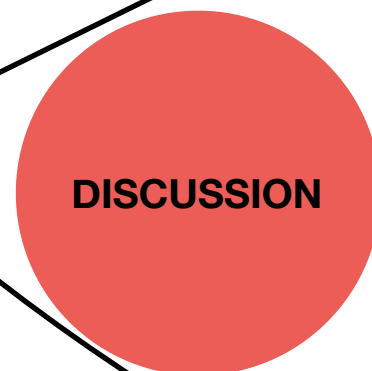
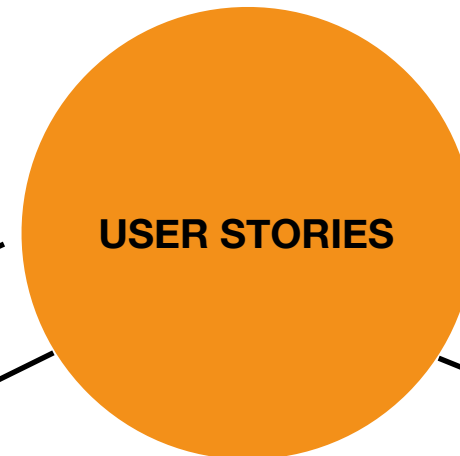
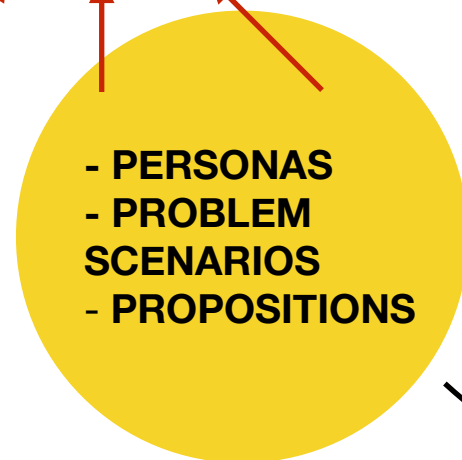
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# What do I do with the insights?

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- 1. Idea** Start from validate learning on your personas, problems, propositions
  - 2. Hypotesis** Usability hypotesis + user stories
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  - 6. Persevere** Experiment prove hypothesis
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How does an iteration work?



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**Today:**

**Usability sprint  
(summary version of day 1)**

Work with your Agile team

	Time	Activity
Team	10 min	Vote on stories and discuss
Team	10 min	Serialise Epics
Alone	30 min	Draft Tests
	10 min	Break
Team	20 min	Team review on tests
Team	30 min	Pair drafts wireframes
Team	15 min	Team review on wireframes
	10 min	Break
Team	10 min	Plan work on prototypes of tests

	Time	Activity
Team	60 min	Prototypes
	10 min	Break
Team	30 min	Tests with other team (15 min each)
Team	20 min	Discuss how to implement feedback
Team	60 min	Implement feedbacks on prototypes