

Learning in the Age of AI and Social Media

8.2.2025 Marco Lardelli

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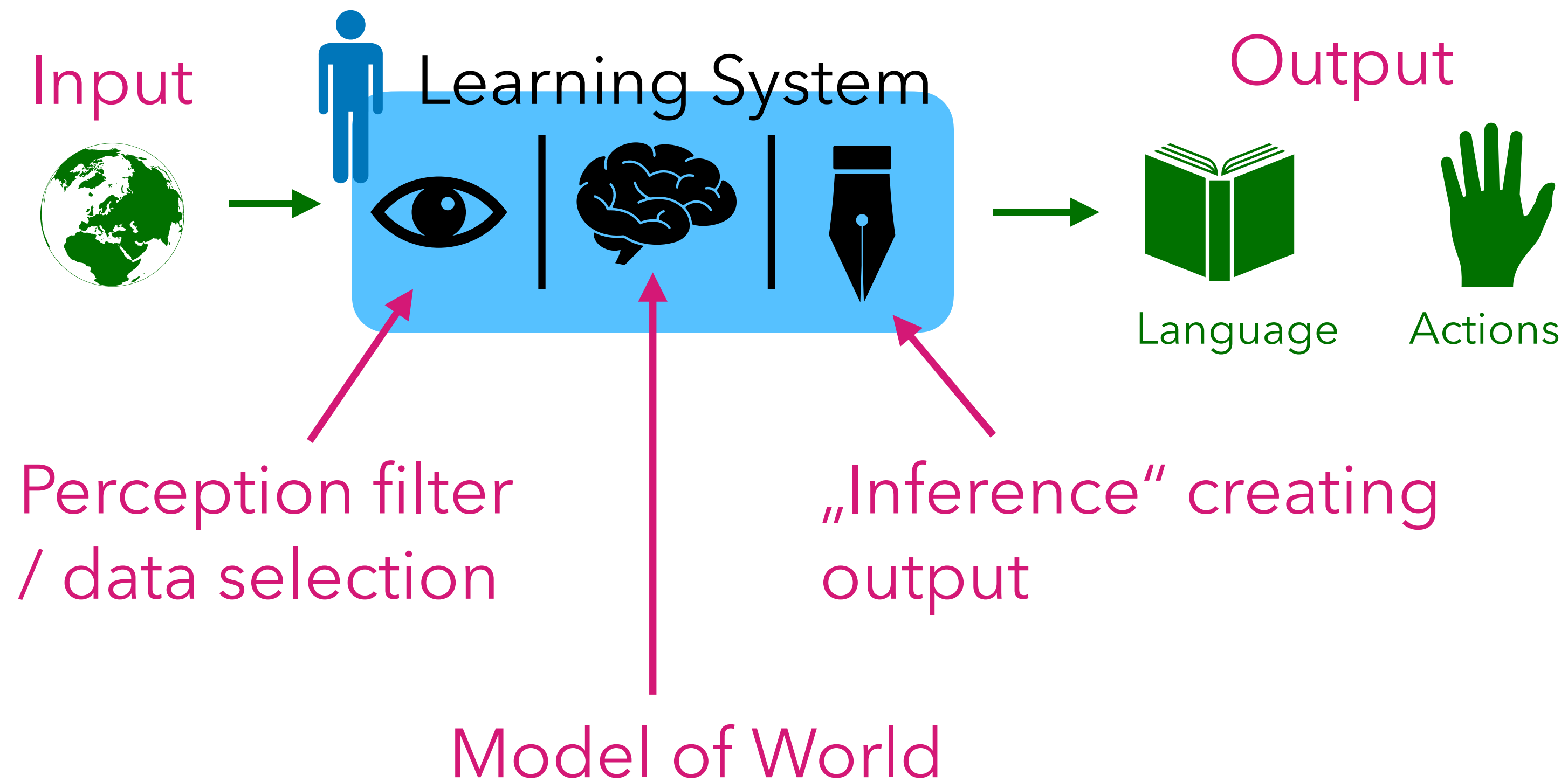
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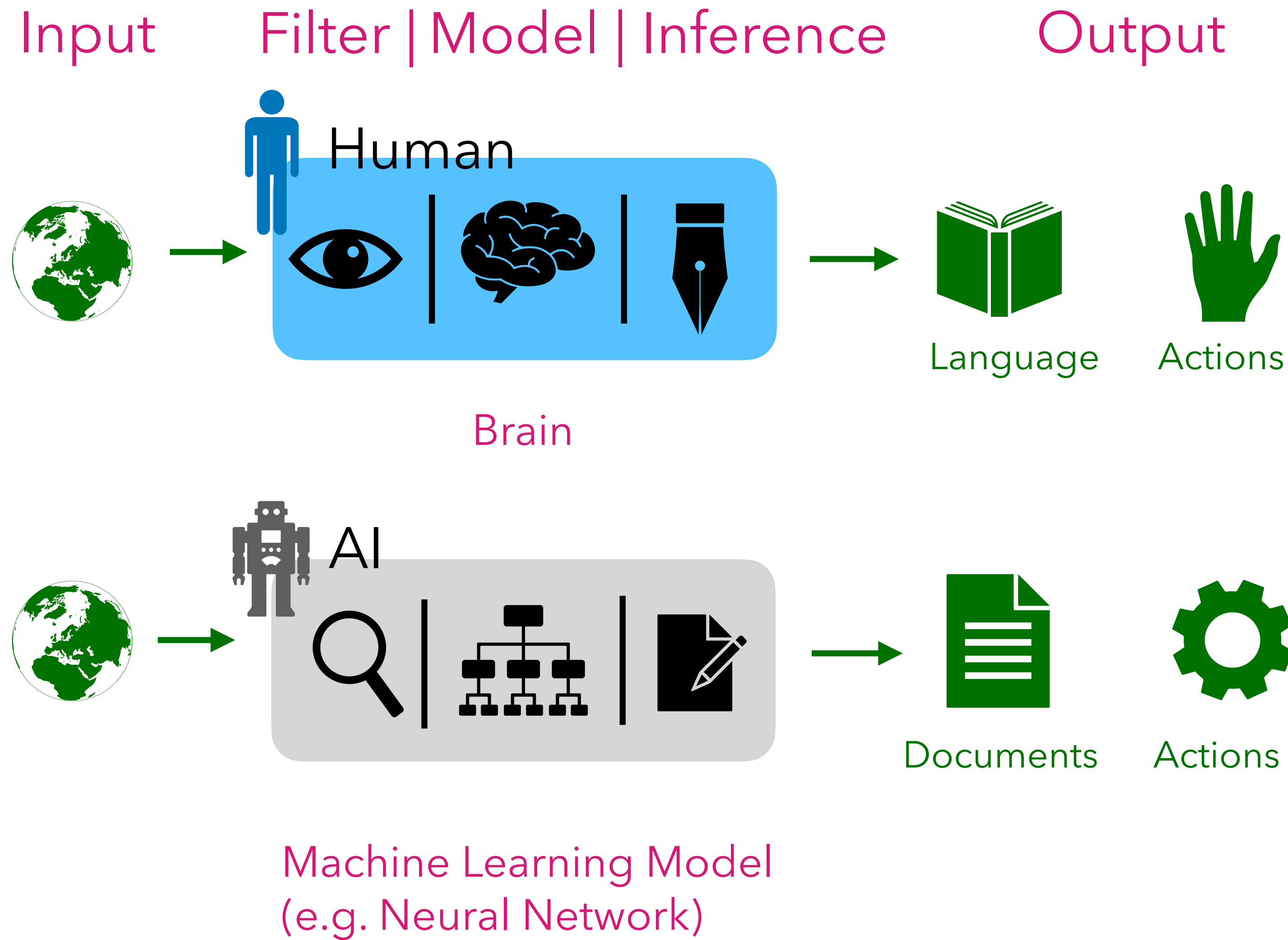
Note: important comments in slide notes!

Project Website: <https://know-know.org>

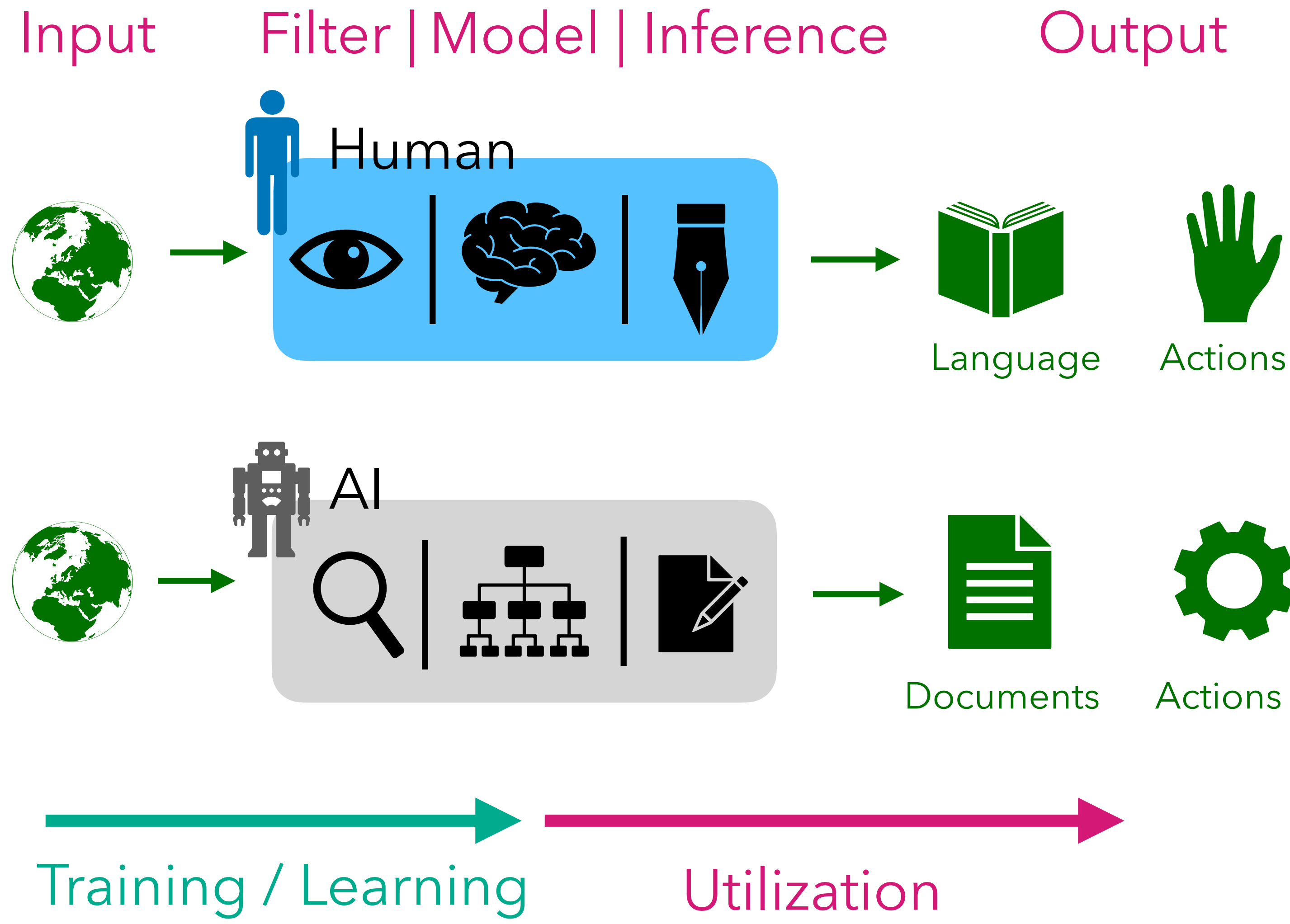
1. Components of a learning system - Overview



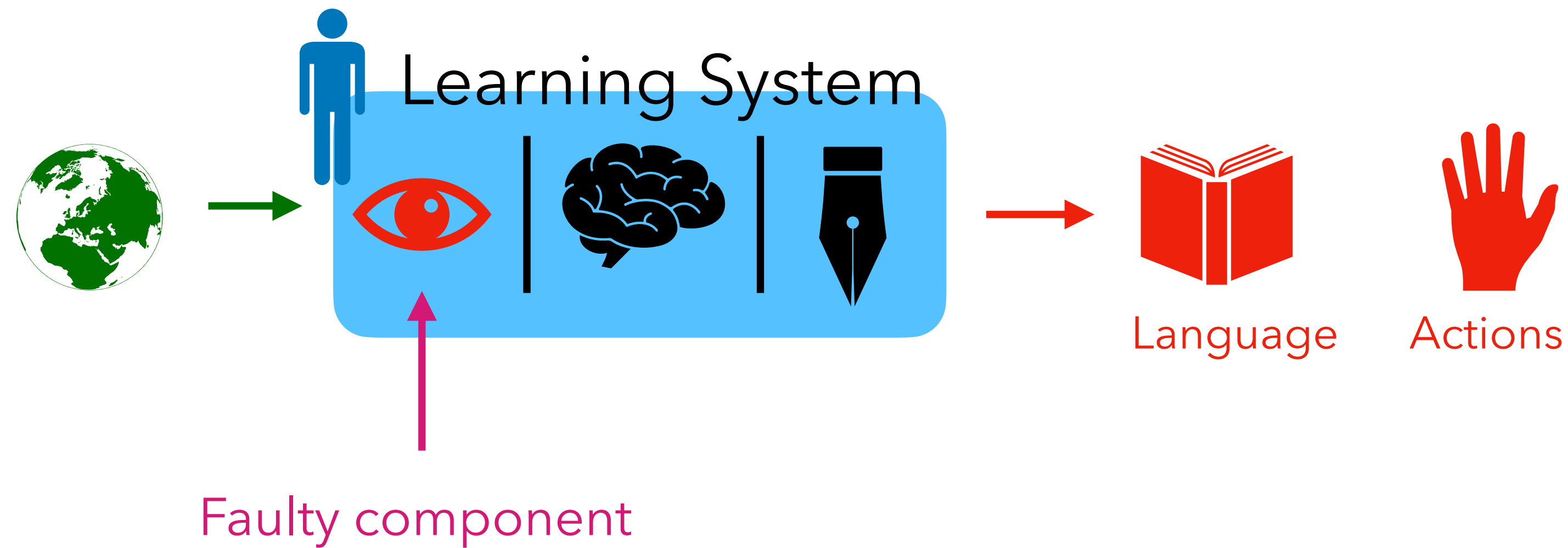
1. Components of a learning system - Human vs AI



1. Components of a learning system - Information Flow



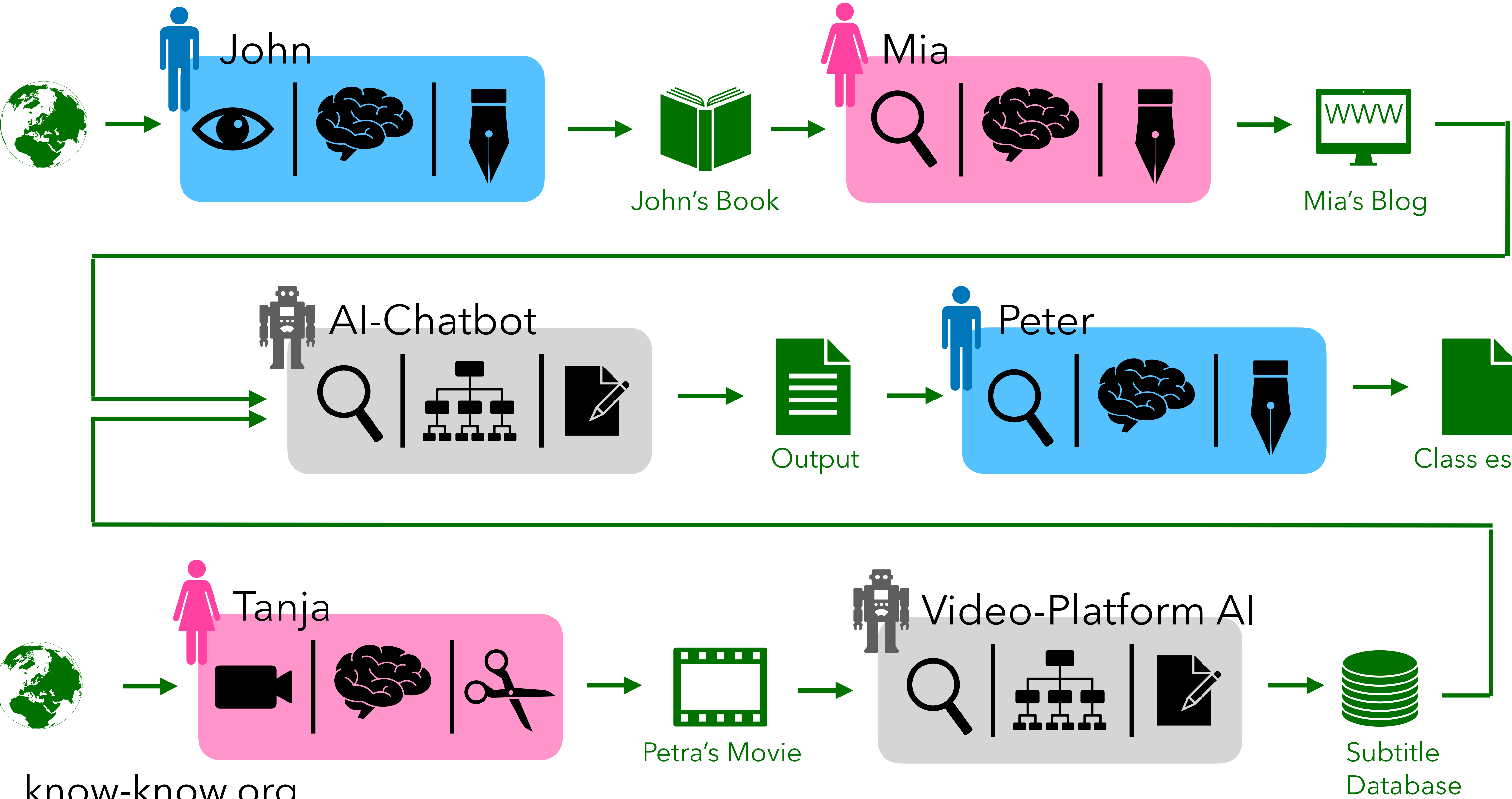
1. **Components** of a learning system - Flawed Components and Outputs



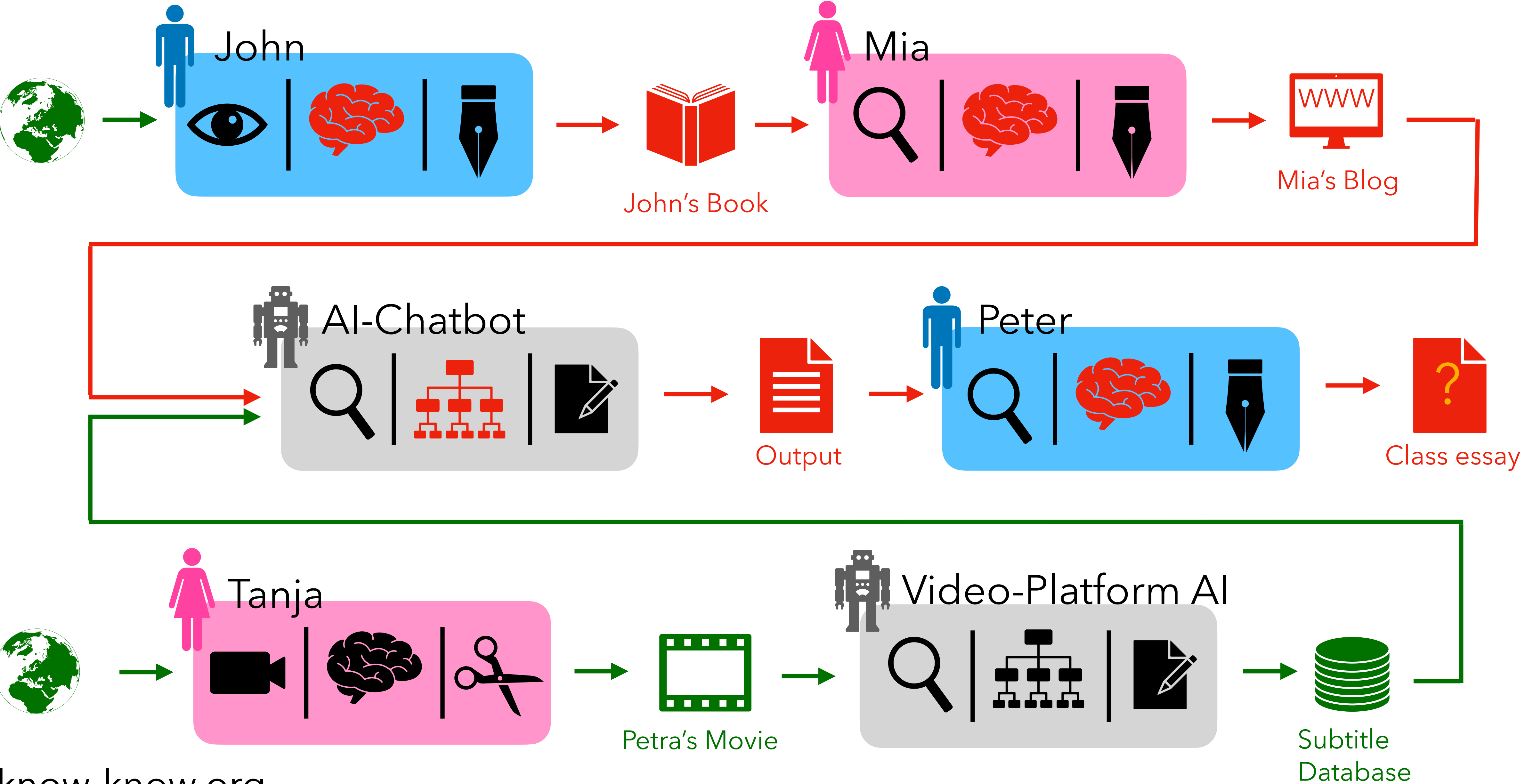
If a **single** component is flawed, the output will be flawed too

(Note: any other color than **red** or **black** is used to show a **quality**)

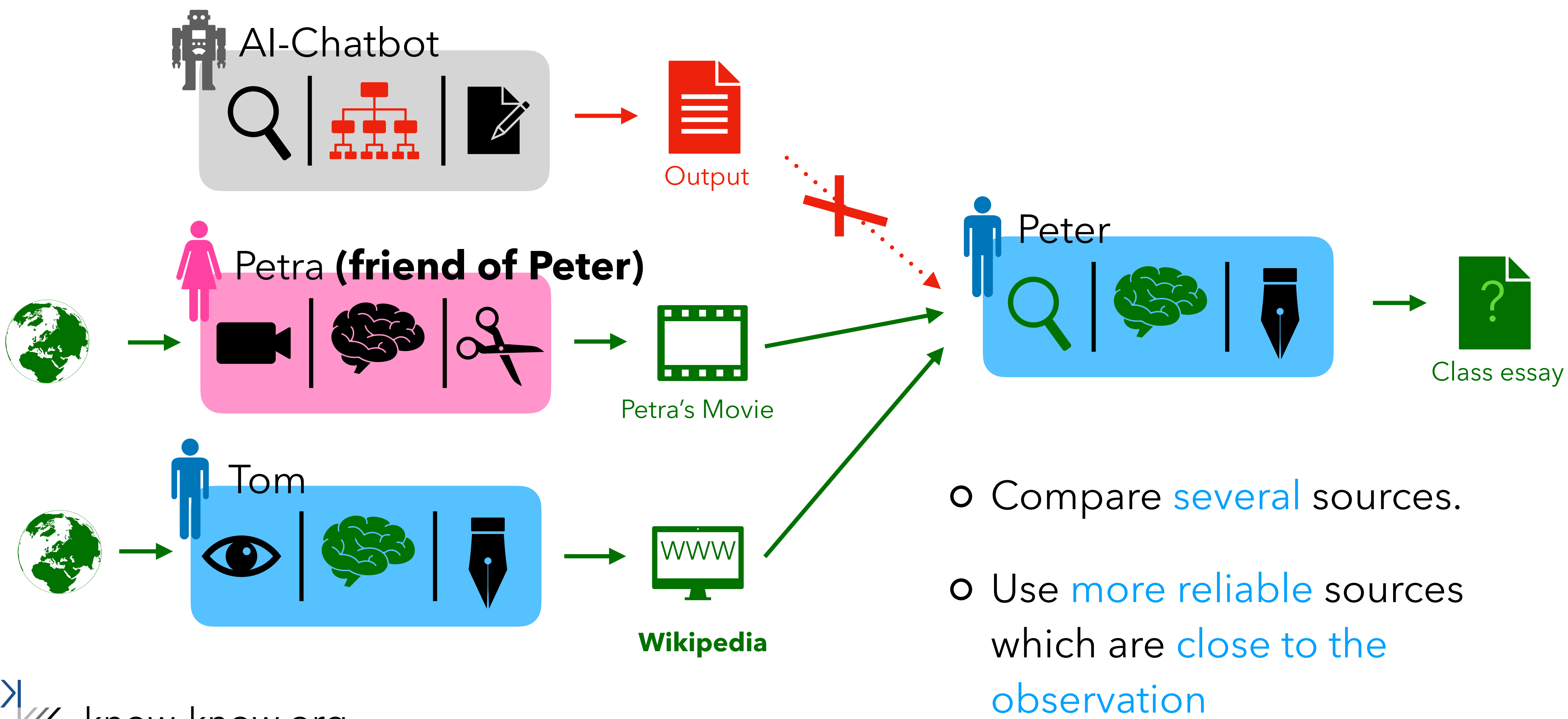
2. We learn in **complex networks** of intelligent systems



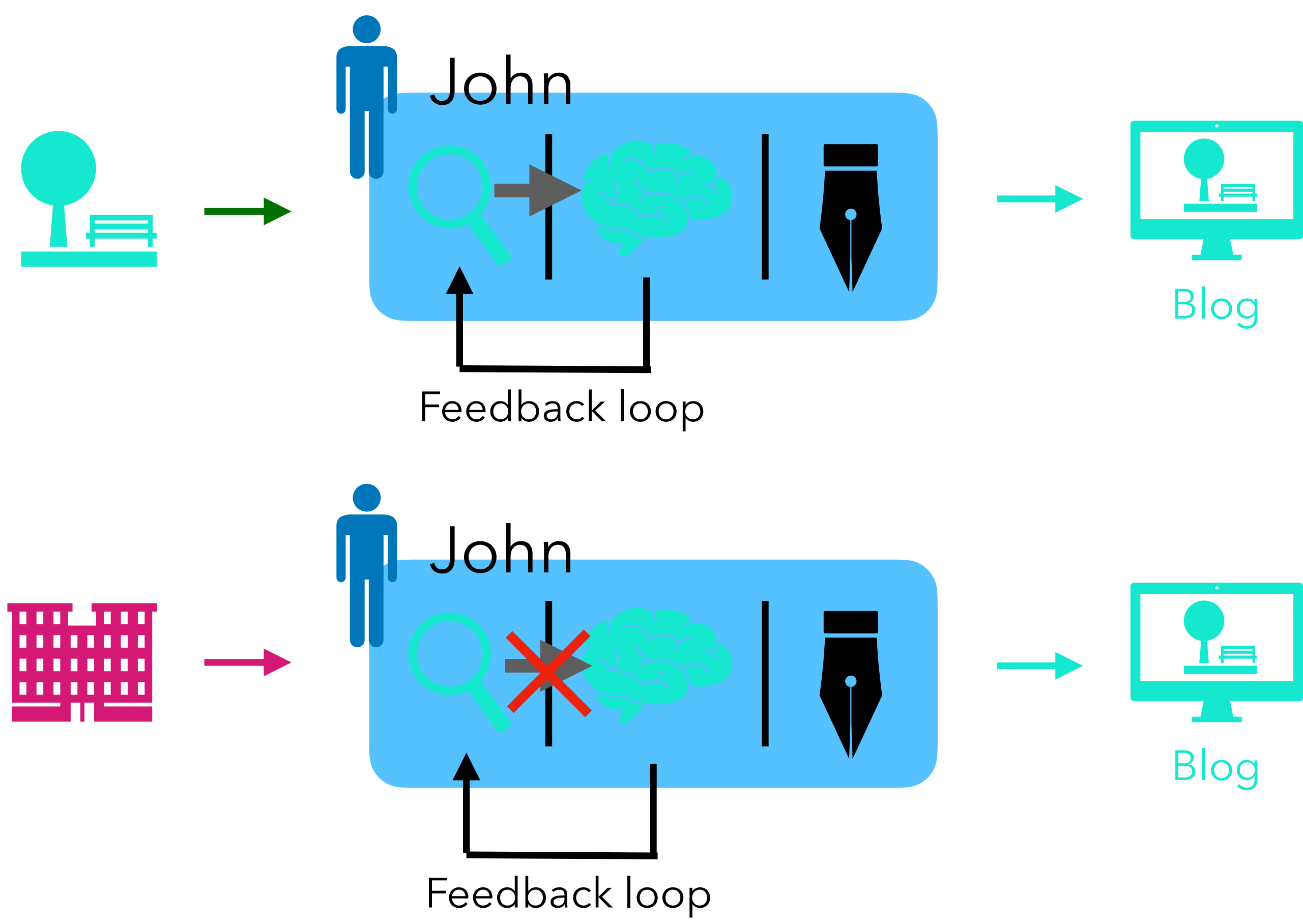
2. A single error in any node can compromise the final result



2. Mitigating errors from information networks

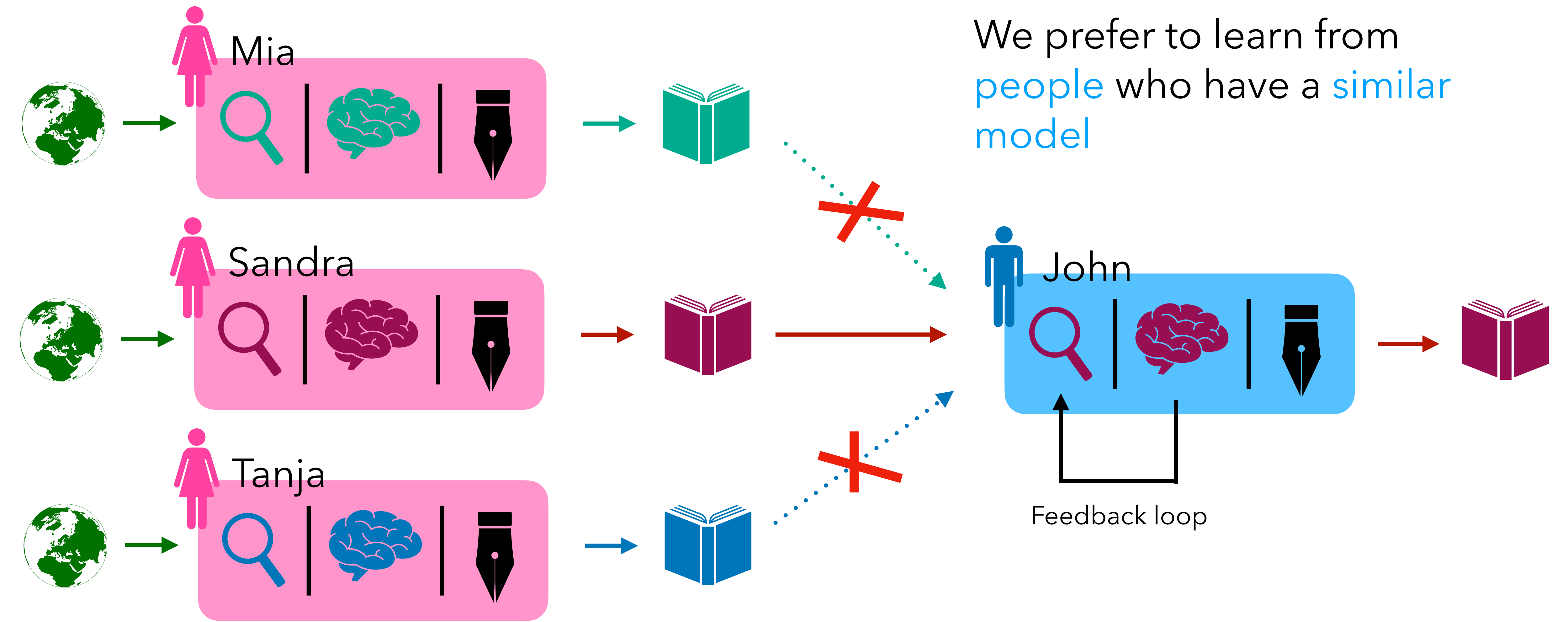


3. Confirmation bias



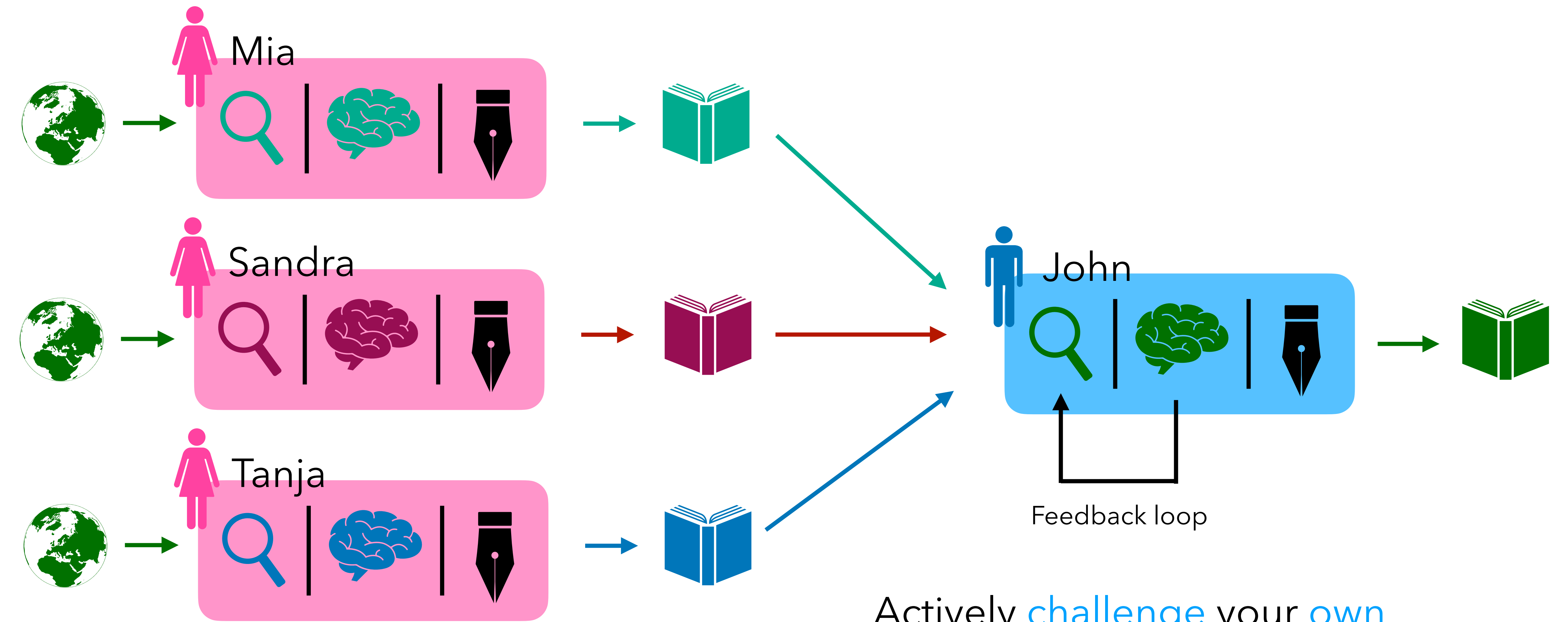
Our perception filter favors information that matches our current model

3. Confirmation bias



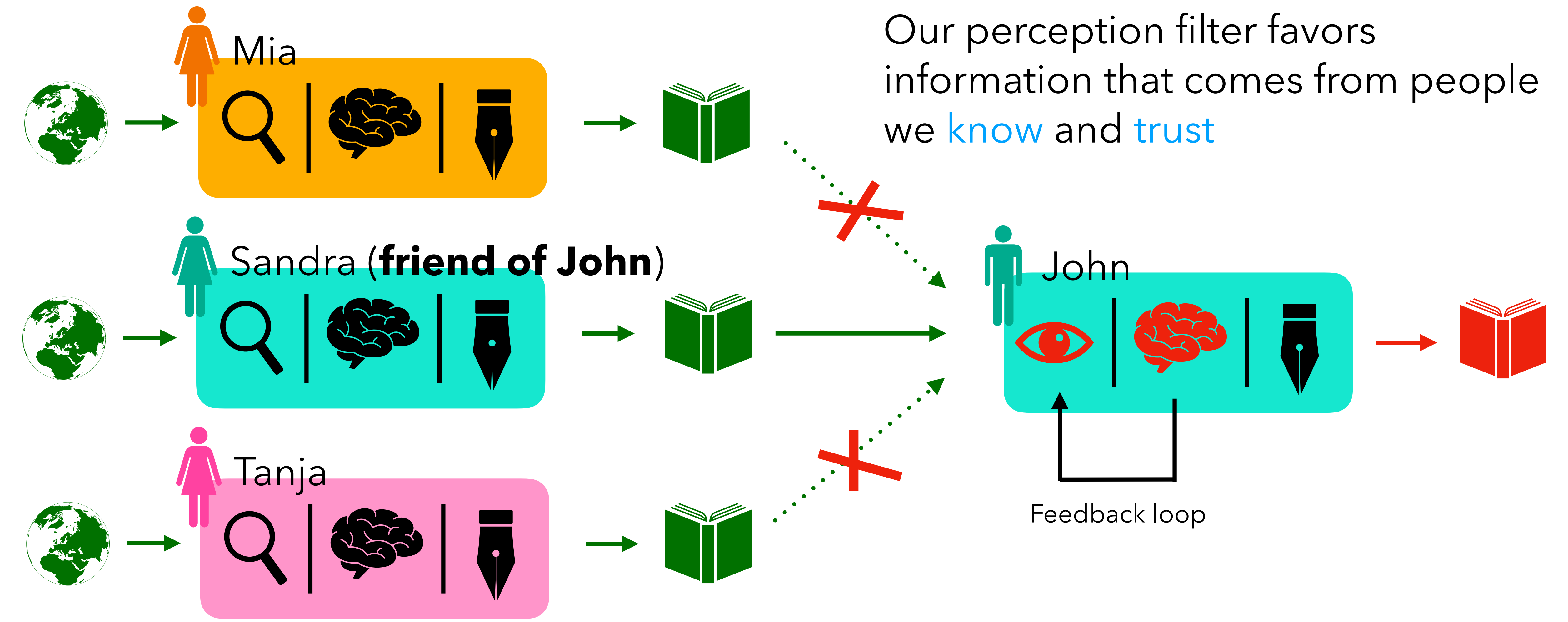
Confirmation bias can lead to echo chambers and extreme views

3. Mitigating confirmation bias



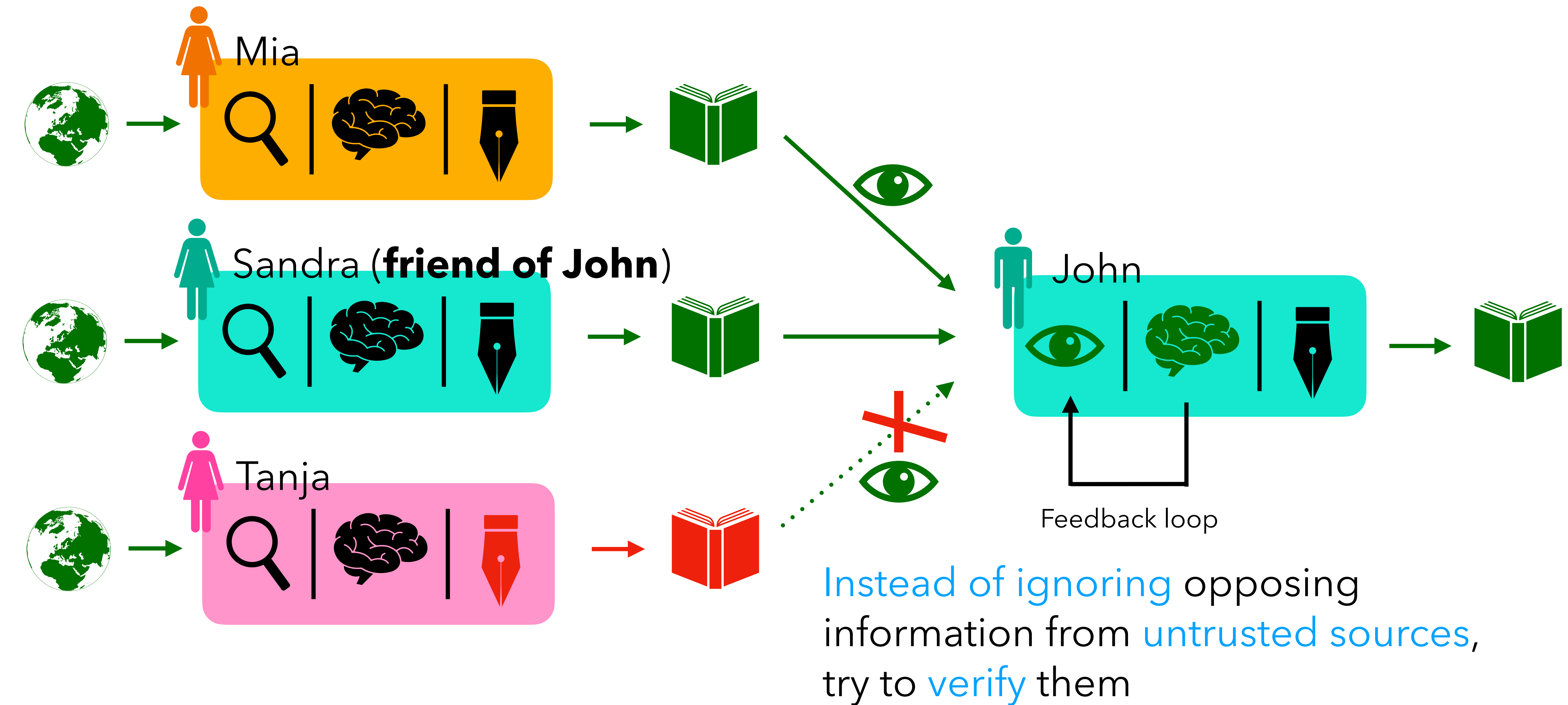
Actively challenge your own opinions by consuming opposing views often

4. Overreliance on trusted sources

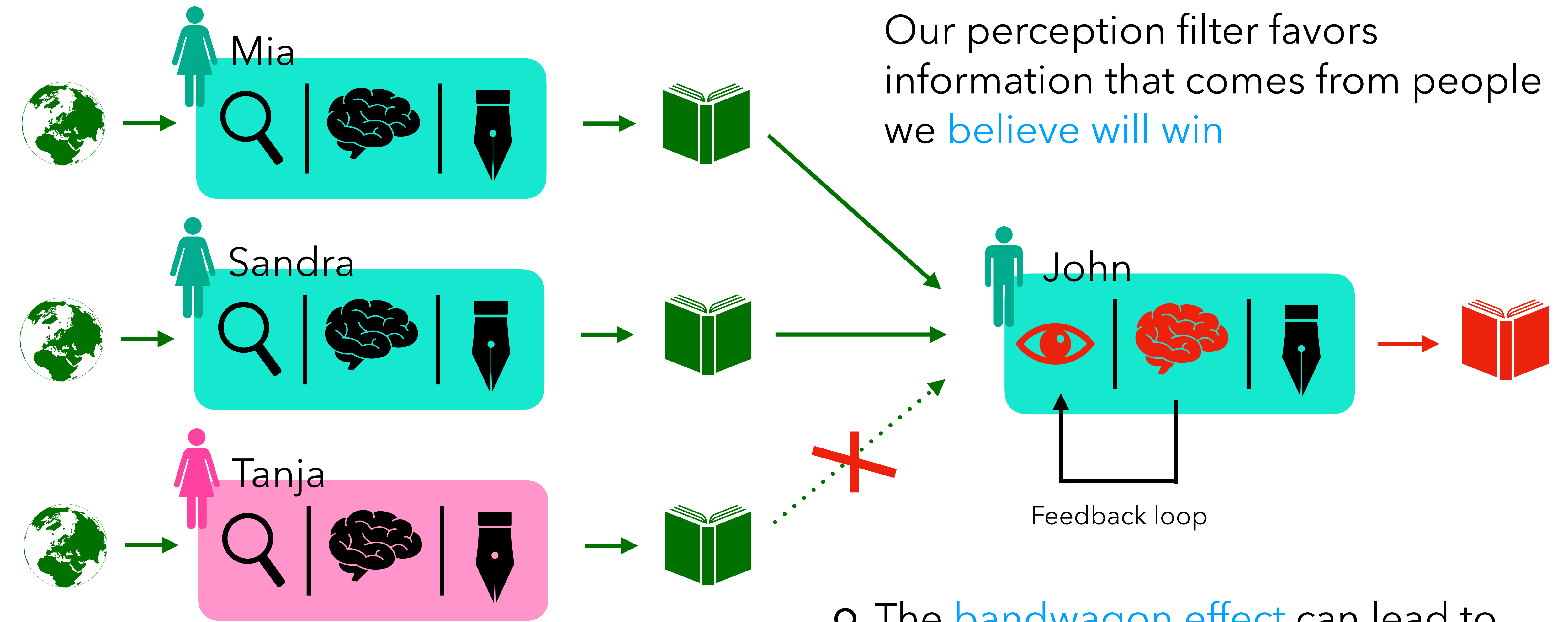


Overreliance on trusted sources can lead to echo chambers

4. Mitigating overreliance on trusted sources

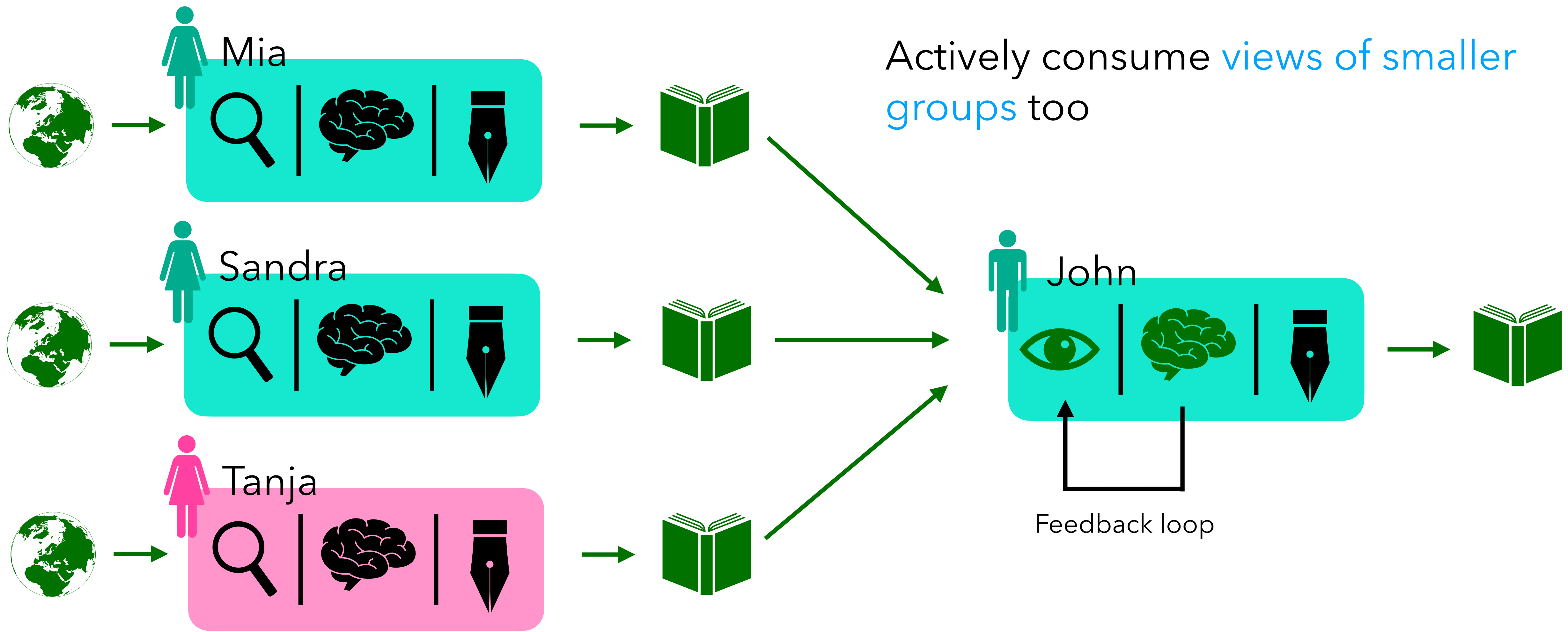


5. The bandwagon effect

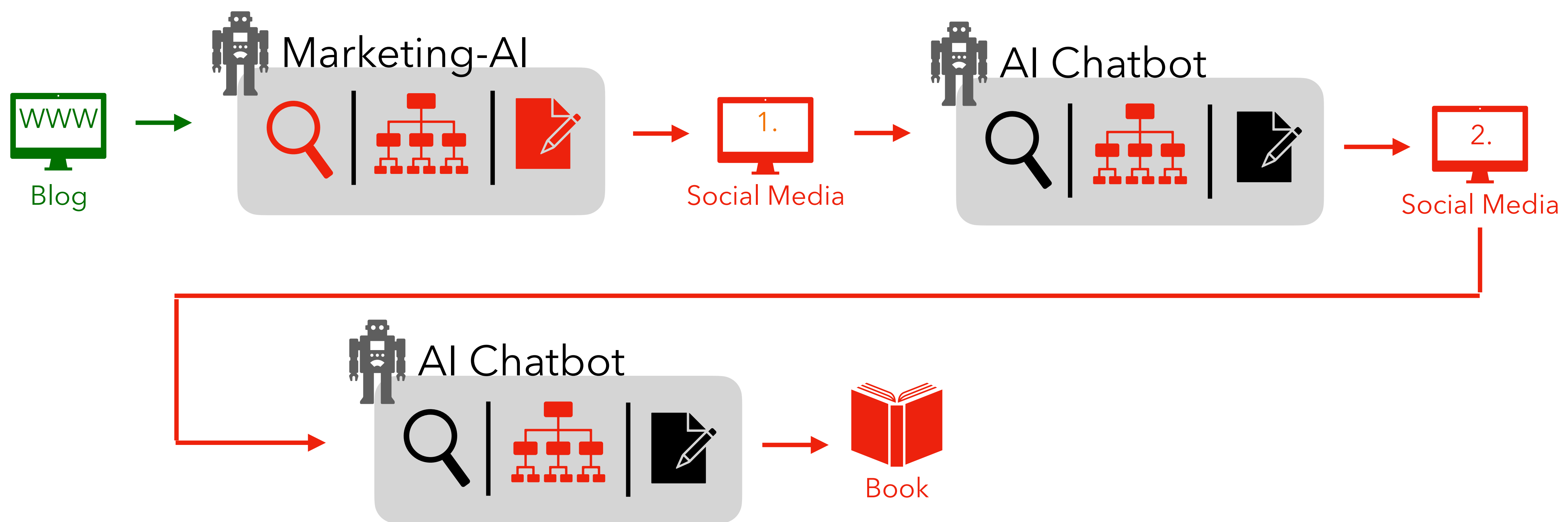


- o The bandwagon effect can lead to echo chambers and polarization
- o New ideas are easily overlooked

5. Mitigating the bandwagon effect

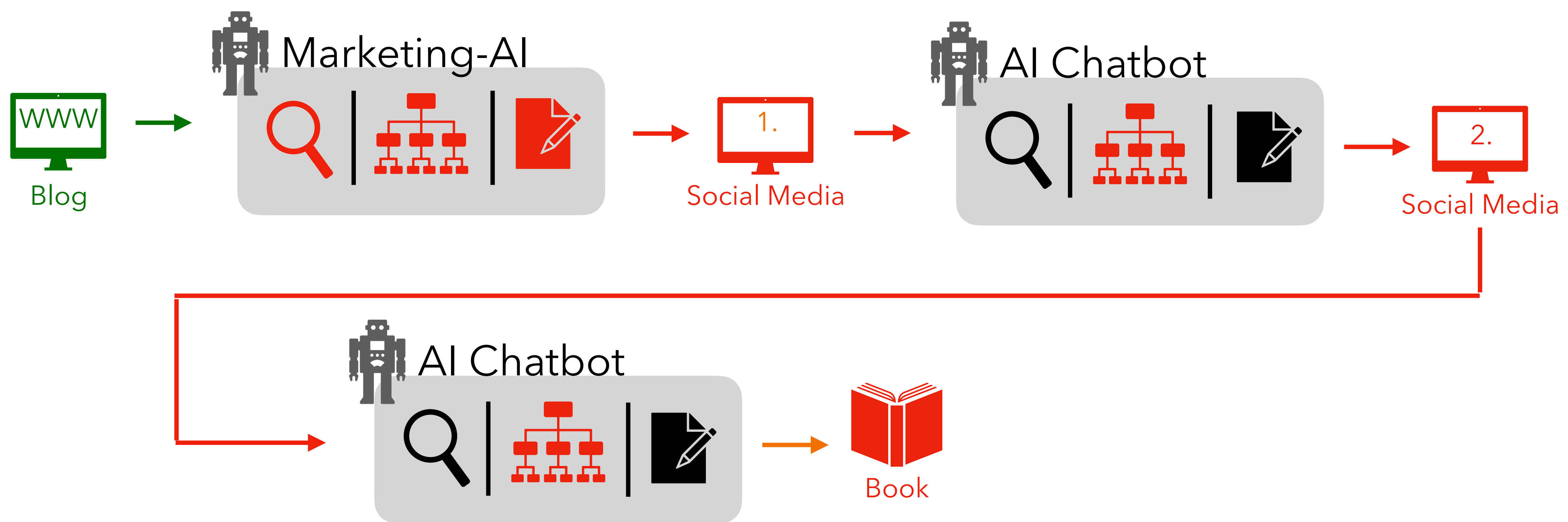


6. The „poisoned well“



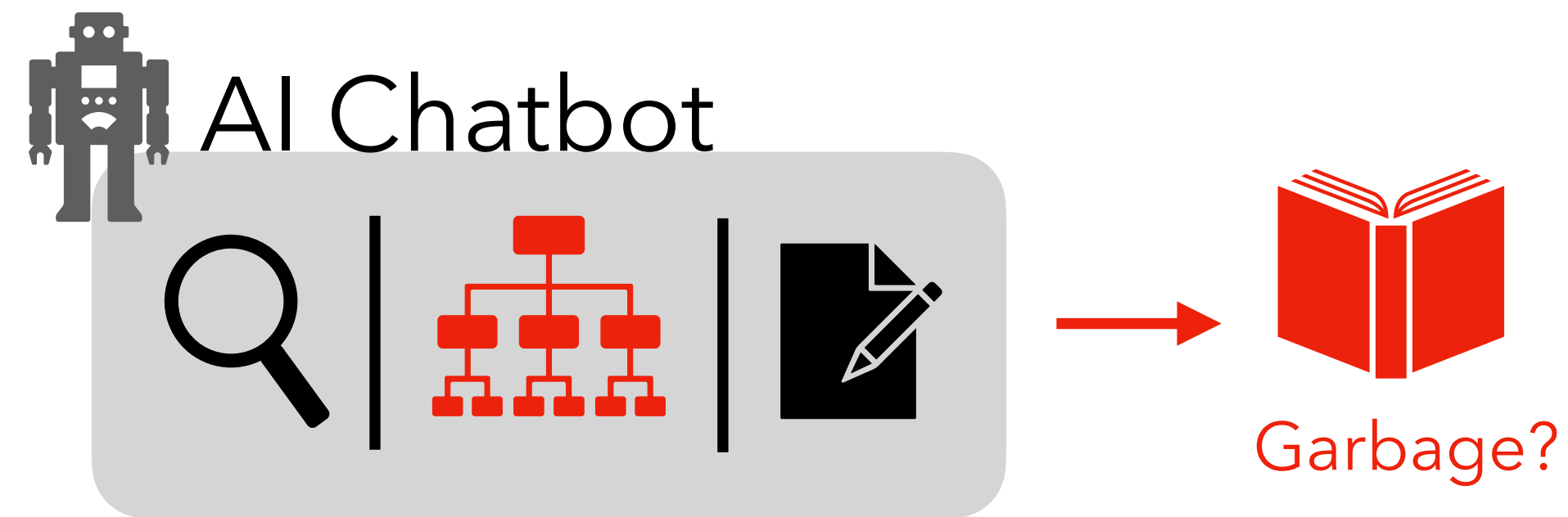
AI-generated content is increasingly being used as training data for AI systems

6. The „poisoned well“



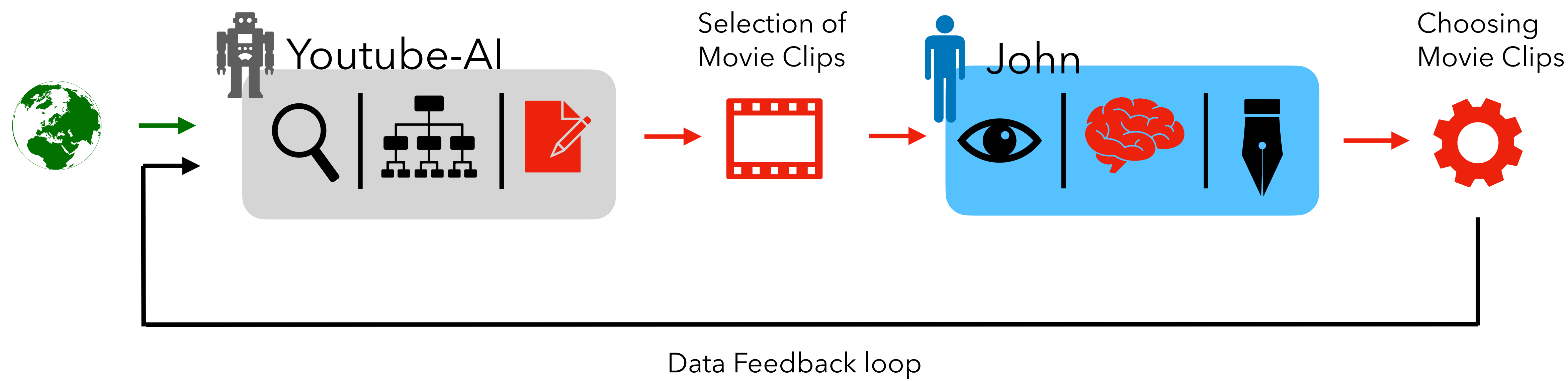
Training AI on AI generated training data can degrade outputs

6. Avoiding the „poisoned well“ problem



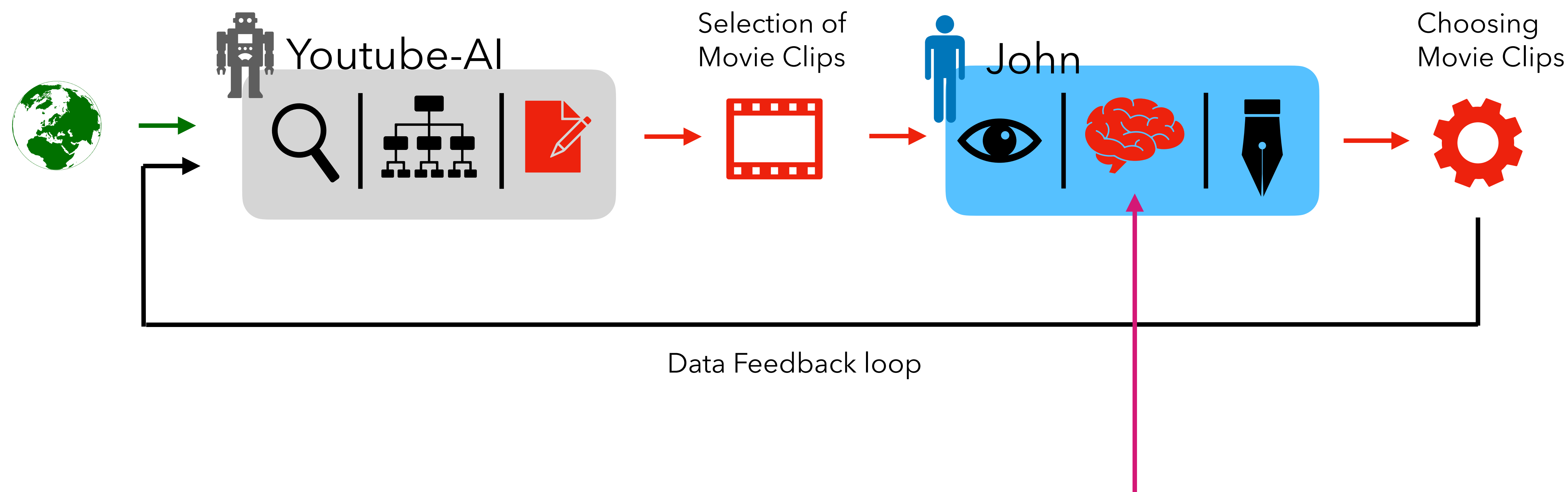
Never fully trust AI, even if the output is highly polished and sounds super convincing

7. The „filter bubble“



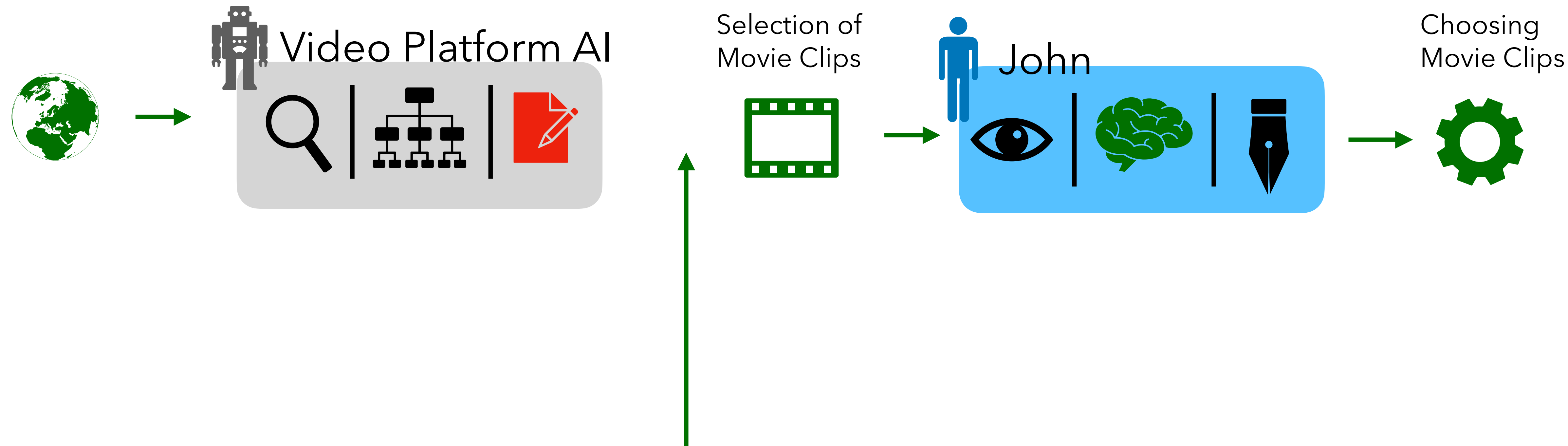
AI is filtering the content we see according to our viewing preferences

7. The „filter bubble“



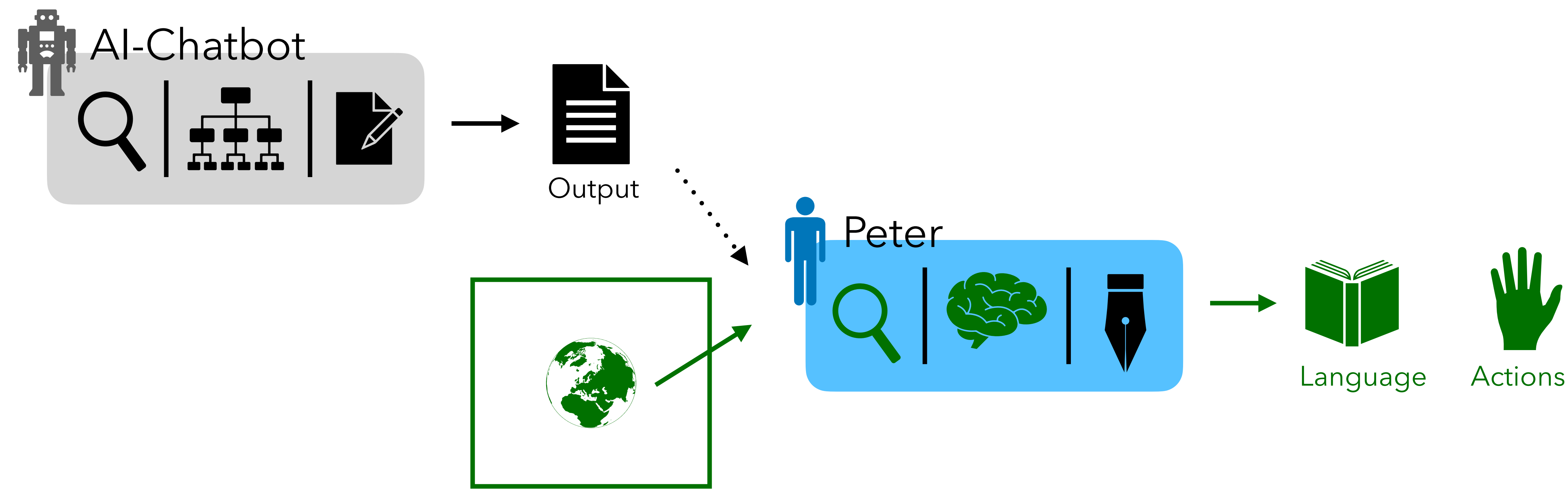
Filter bubbles can lead to a distorted view of reality

7. Avoiding the „filter bubble“



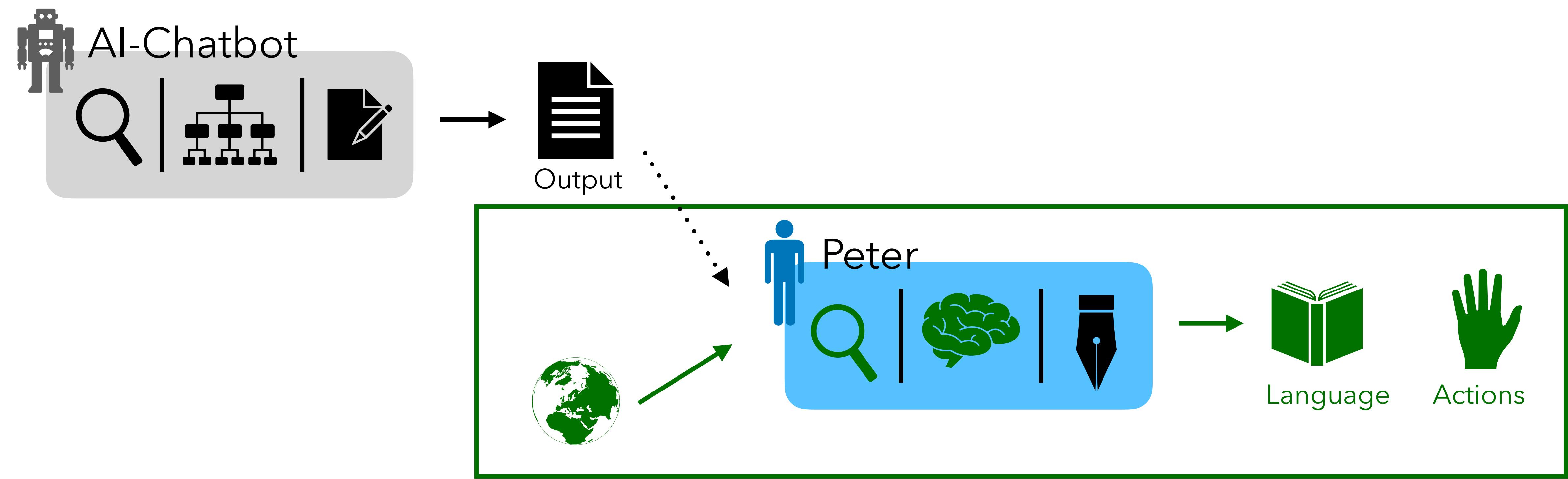
Don't let AI filter your content!

8. General strategies



The **most trusted** source of information are **your own observations**

8. General strategies



Treasure your analog life!