

Learning in the Age of AI and Social Media

8.2.2025 Marco Lardelli



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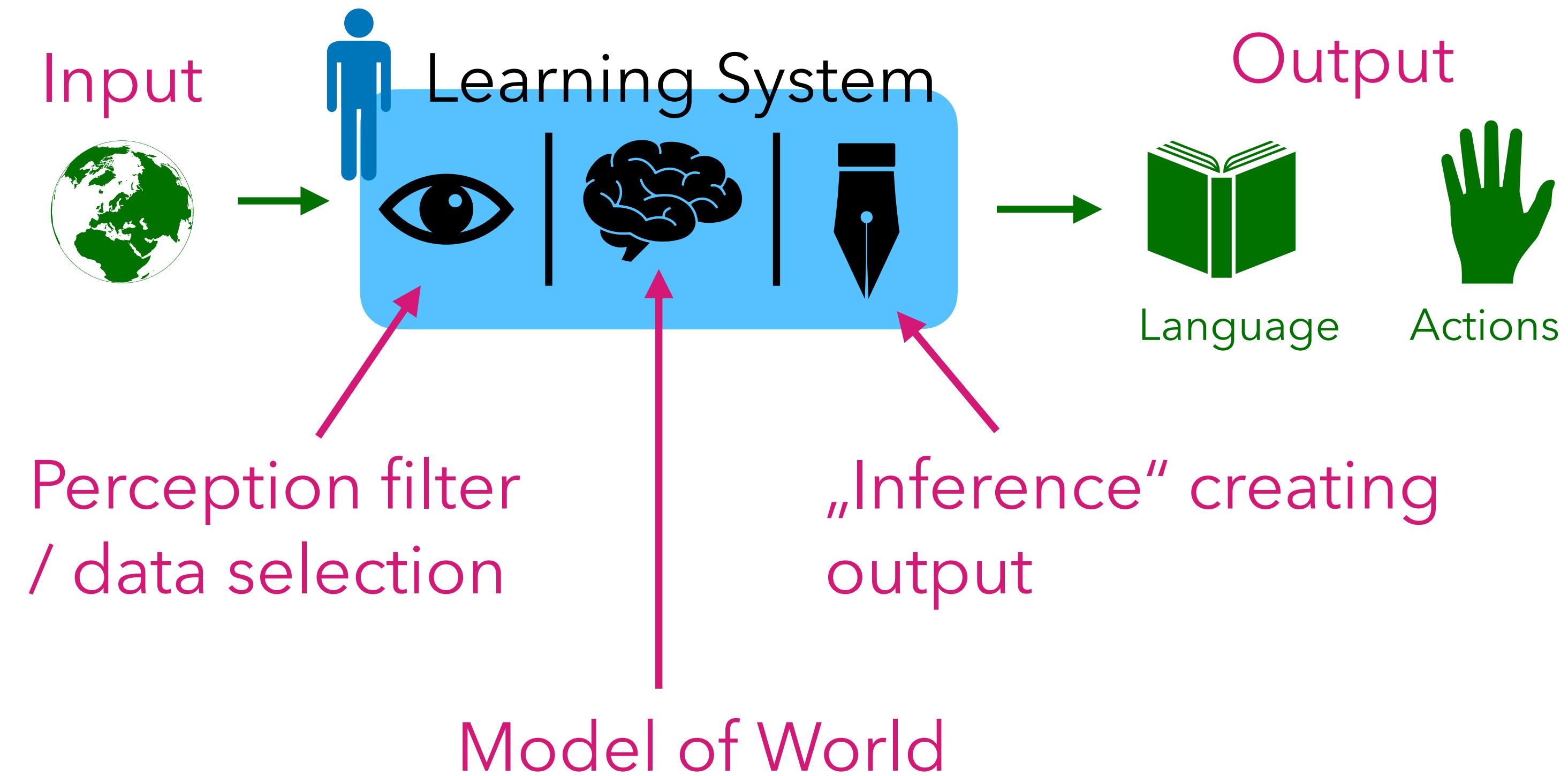
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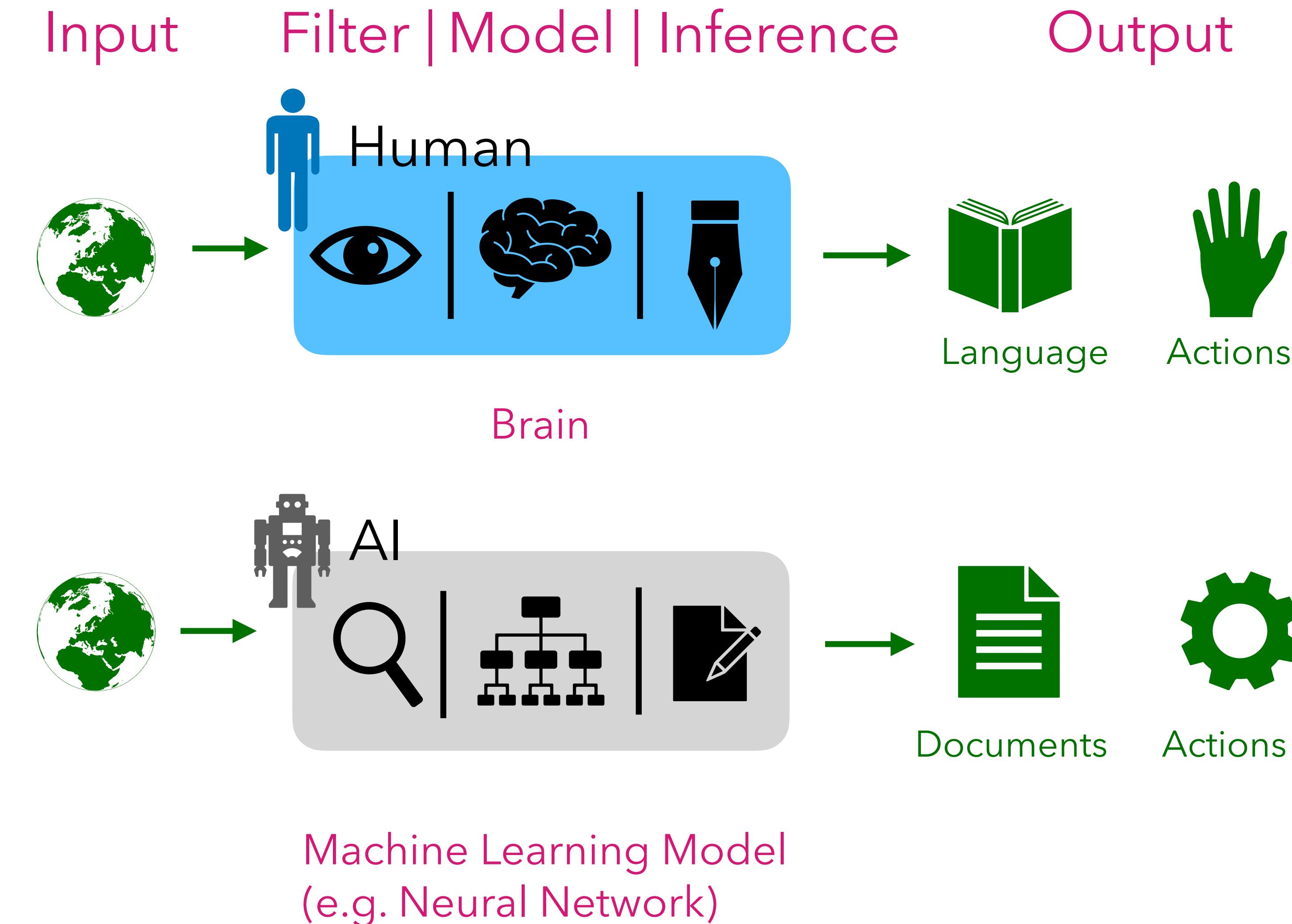
Note: important comments in slide notes!

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

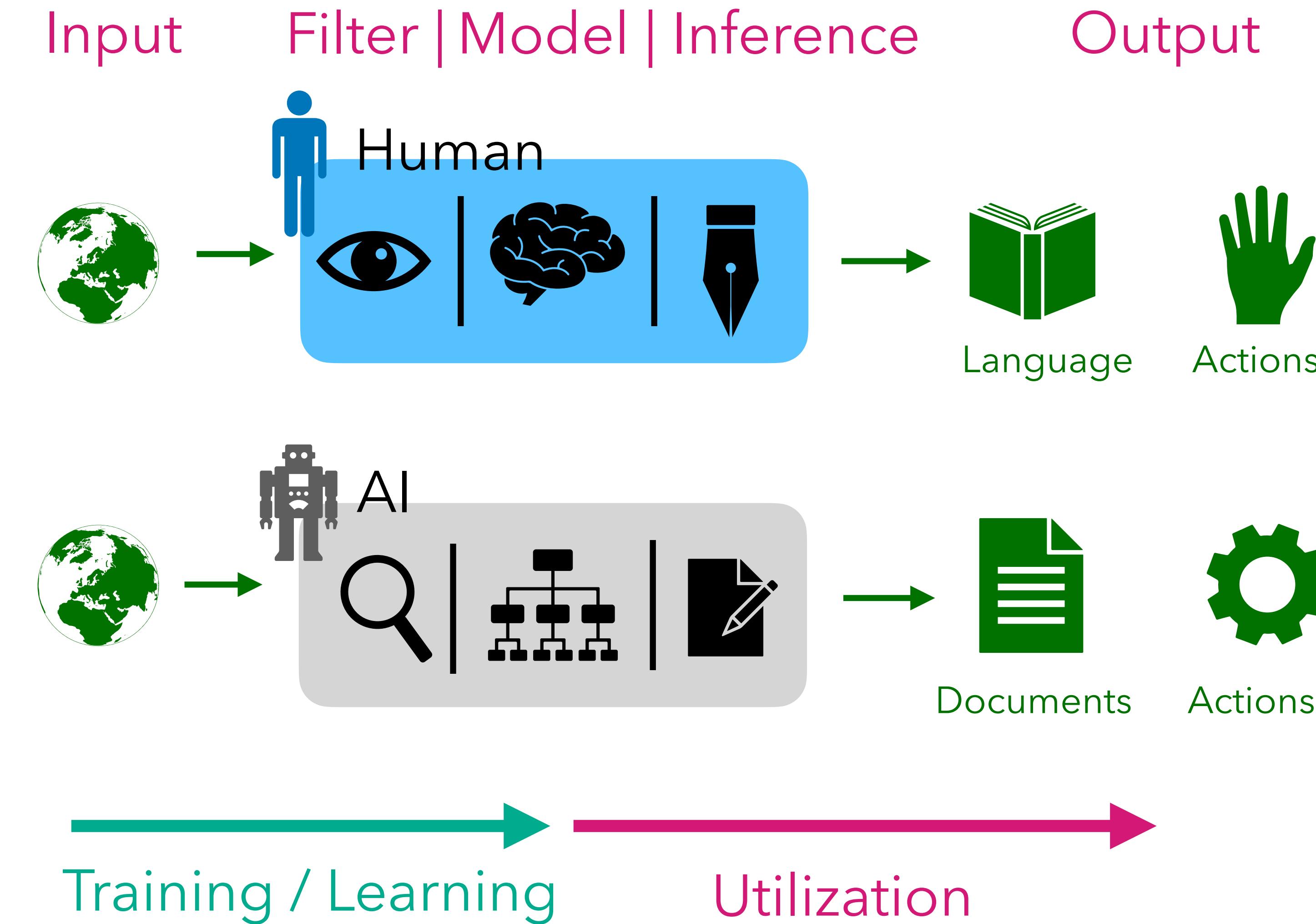
1. Components of a learning system - Overview



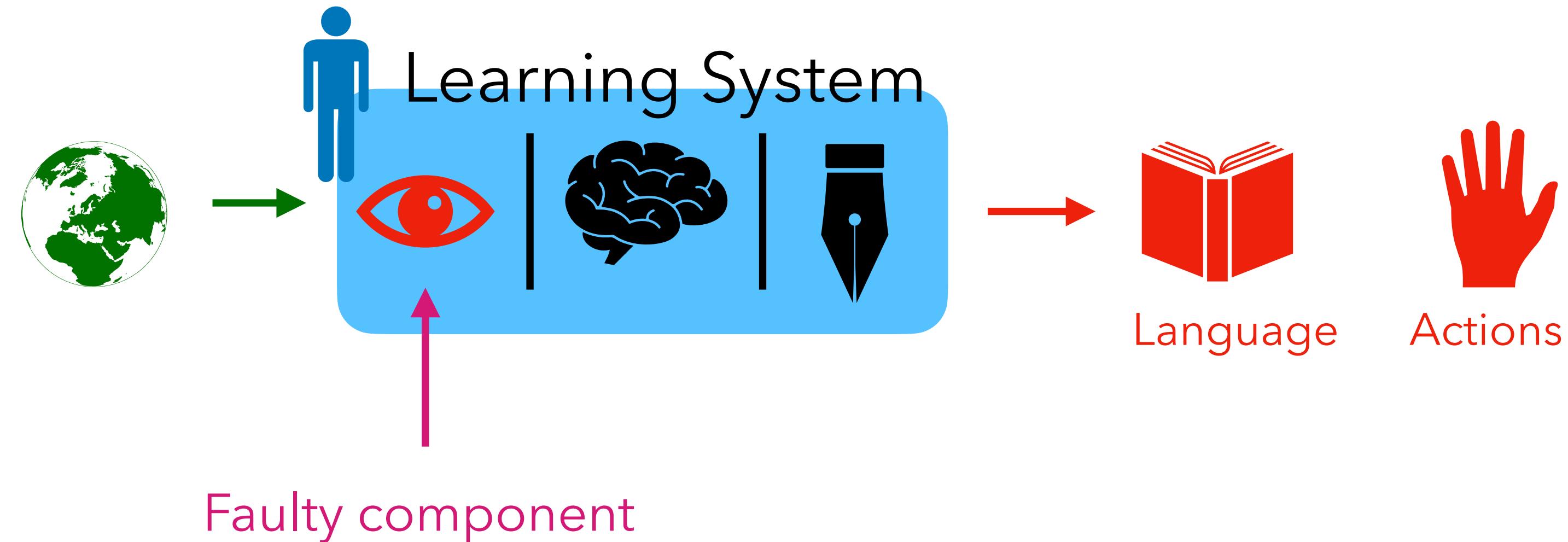
1. Components of a learning system - Human vs AI



1. Components of a learning system - Information Flow



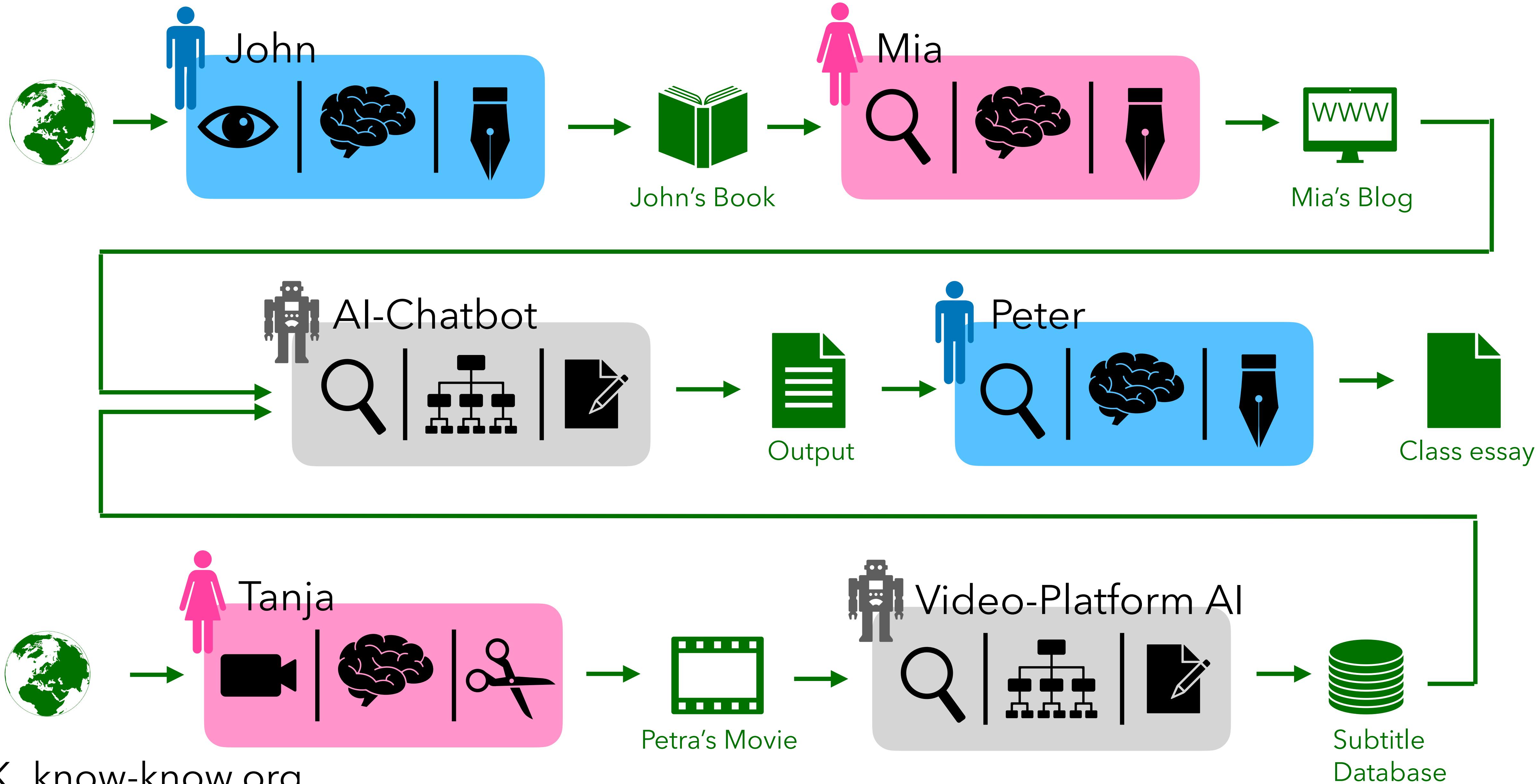
1. Components of a learning system - Flawed Components and Outputs



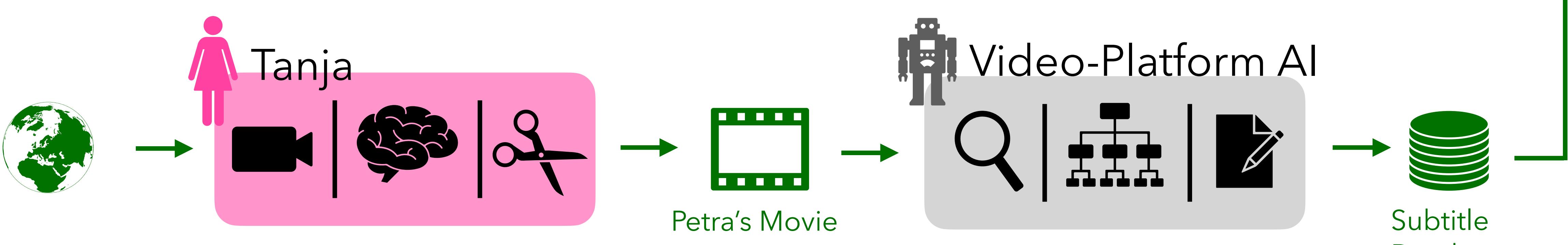
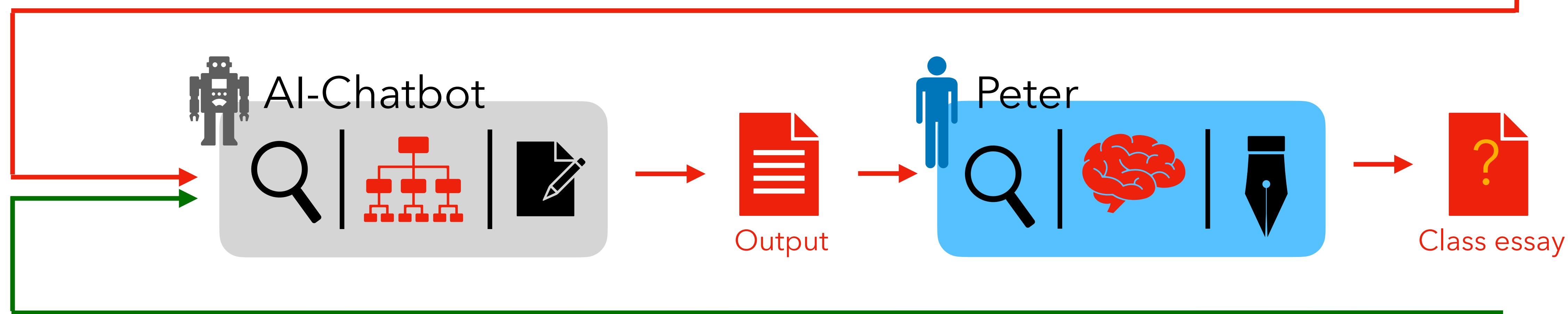
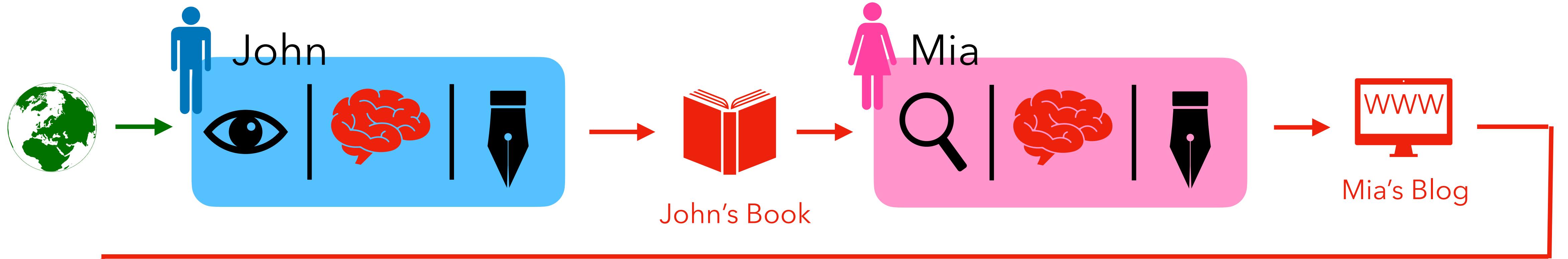
If a single component is flawed, the output will be flawed too

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

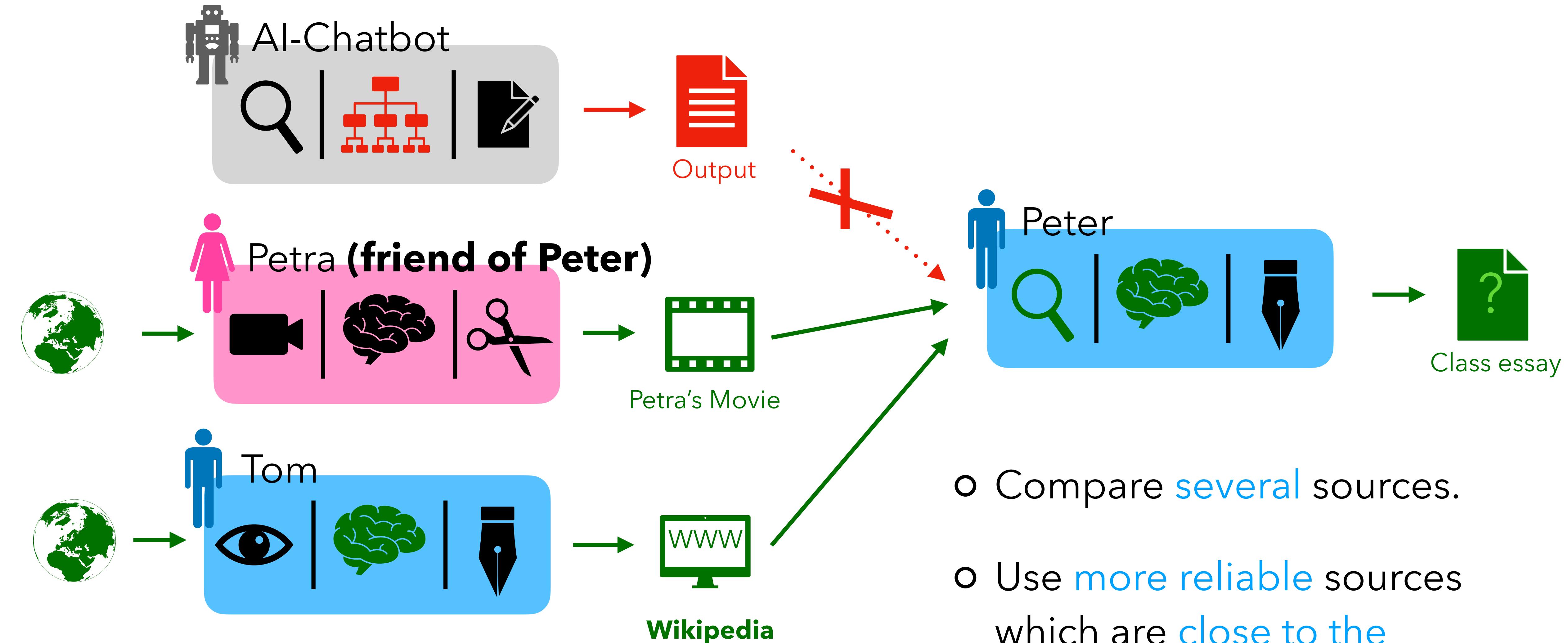
2. We learn in **complex networks** of intelligent systems



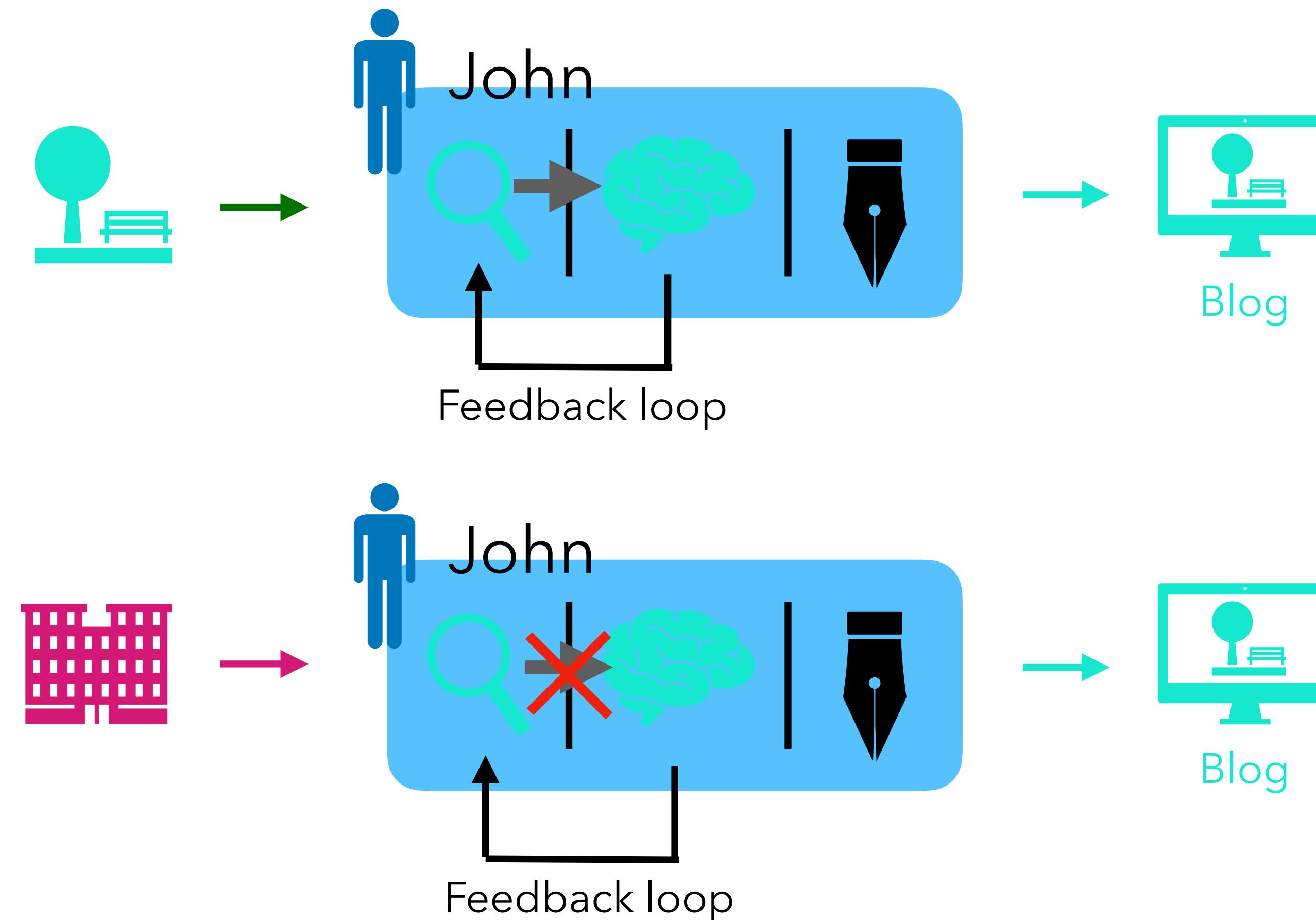
2. A single error in any node can compromise the final result



2. Mitigating errors from information networks

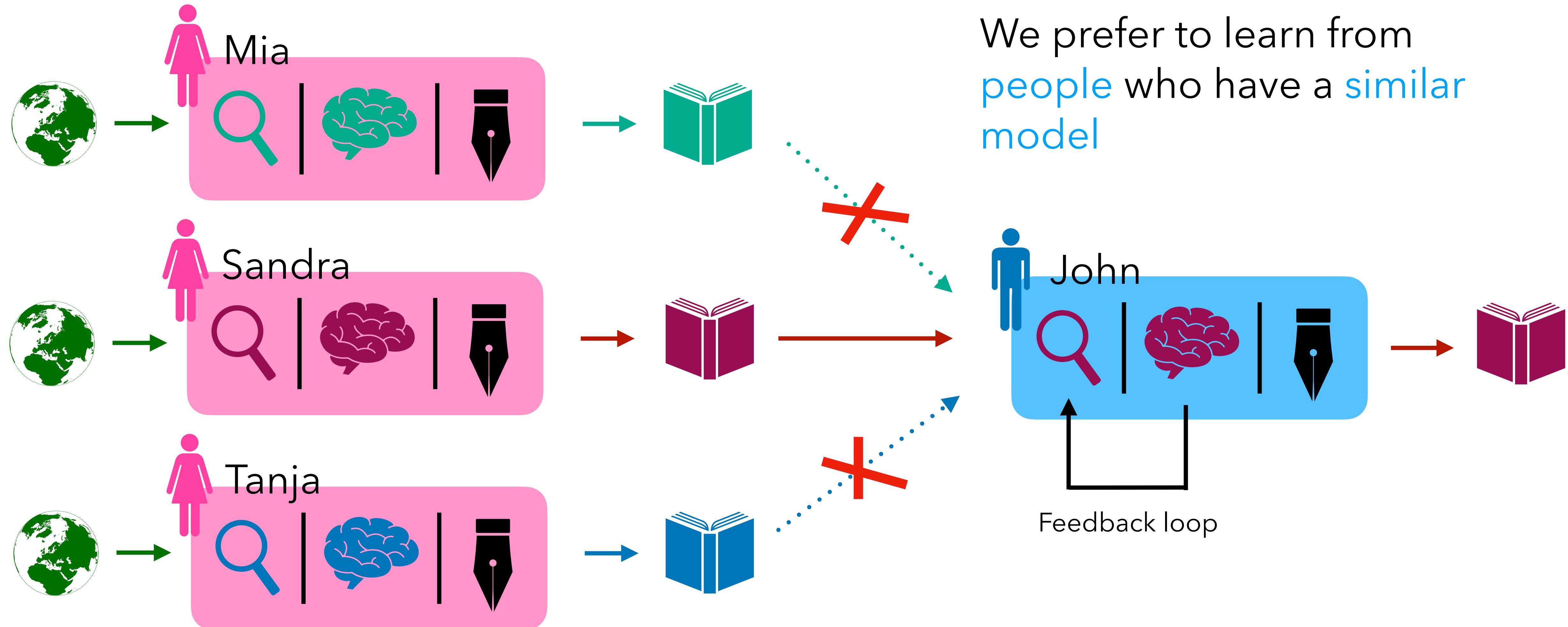


3. Confirmation bias



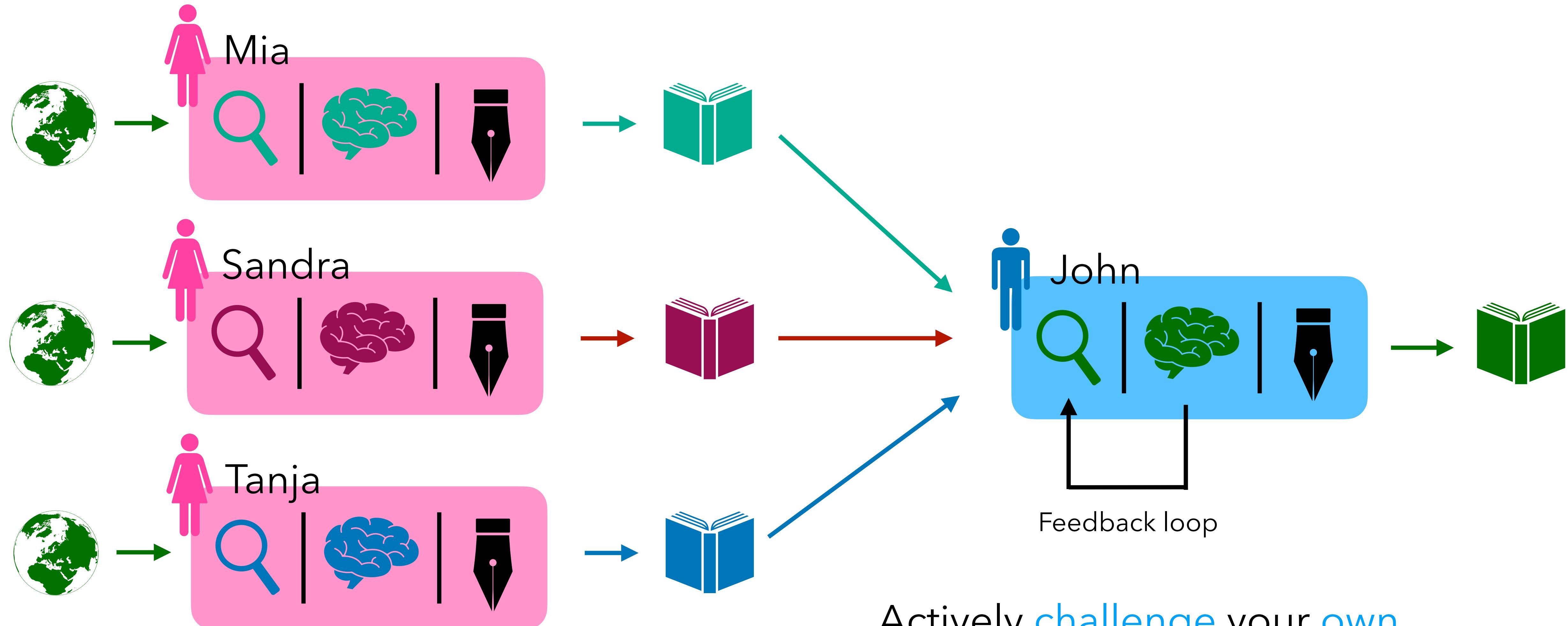
Our perception filter **favors information** that matches our current model

3. Confirmation bias



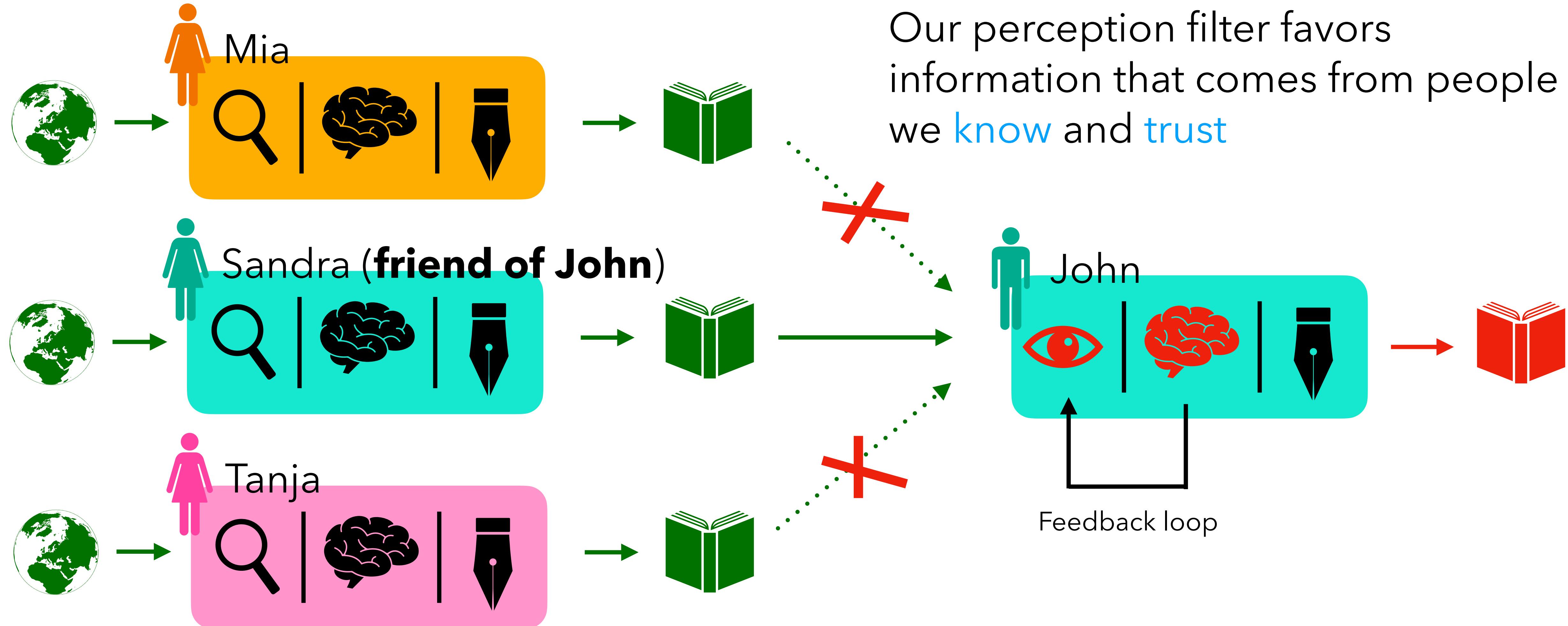
Confirmation bias can lead to echo chambers and extreme views

3. Mitigating confirmation bias

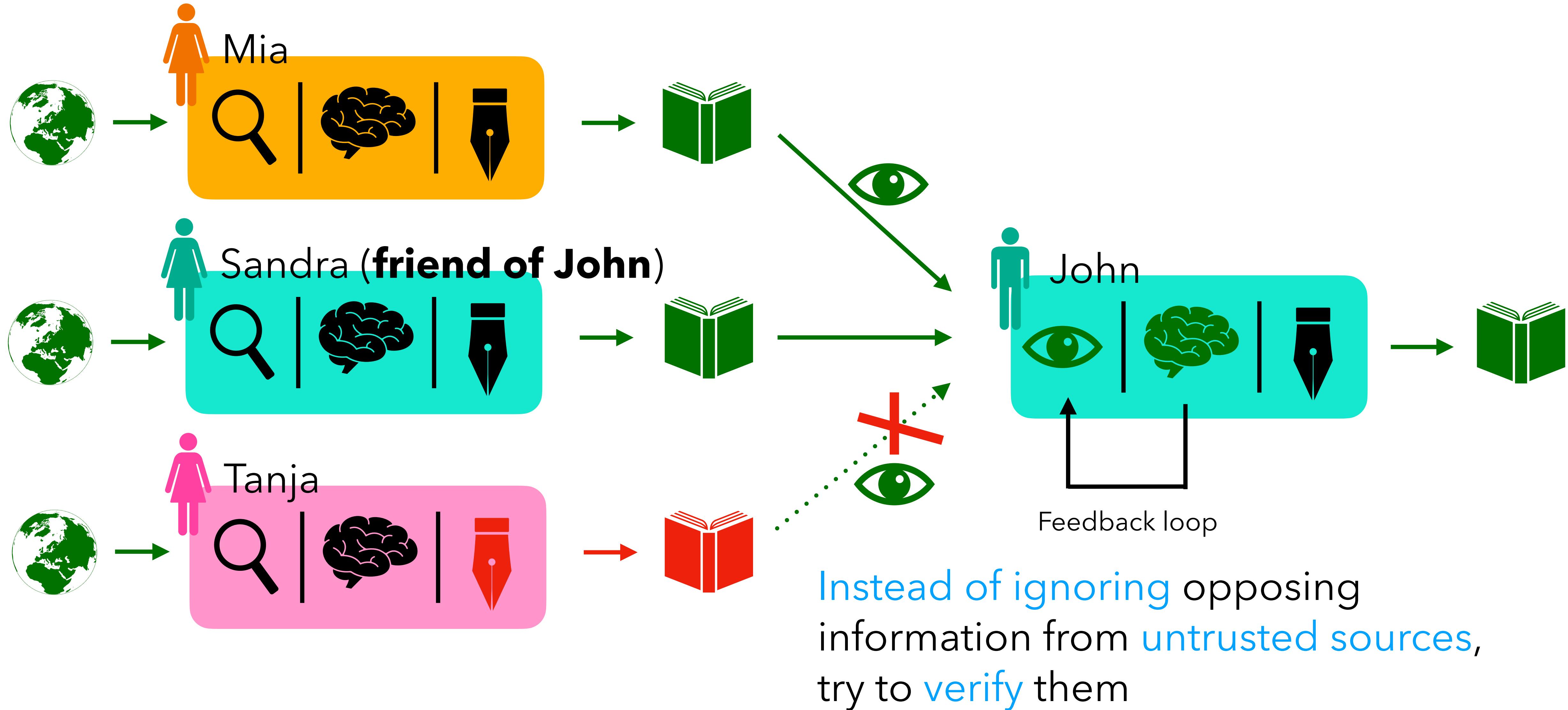


Actively **challenge** your own
opinions by **consuming**
opposing views often

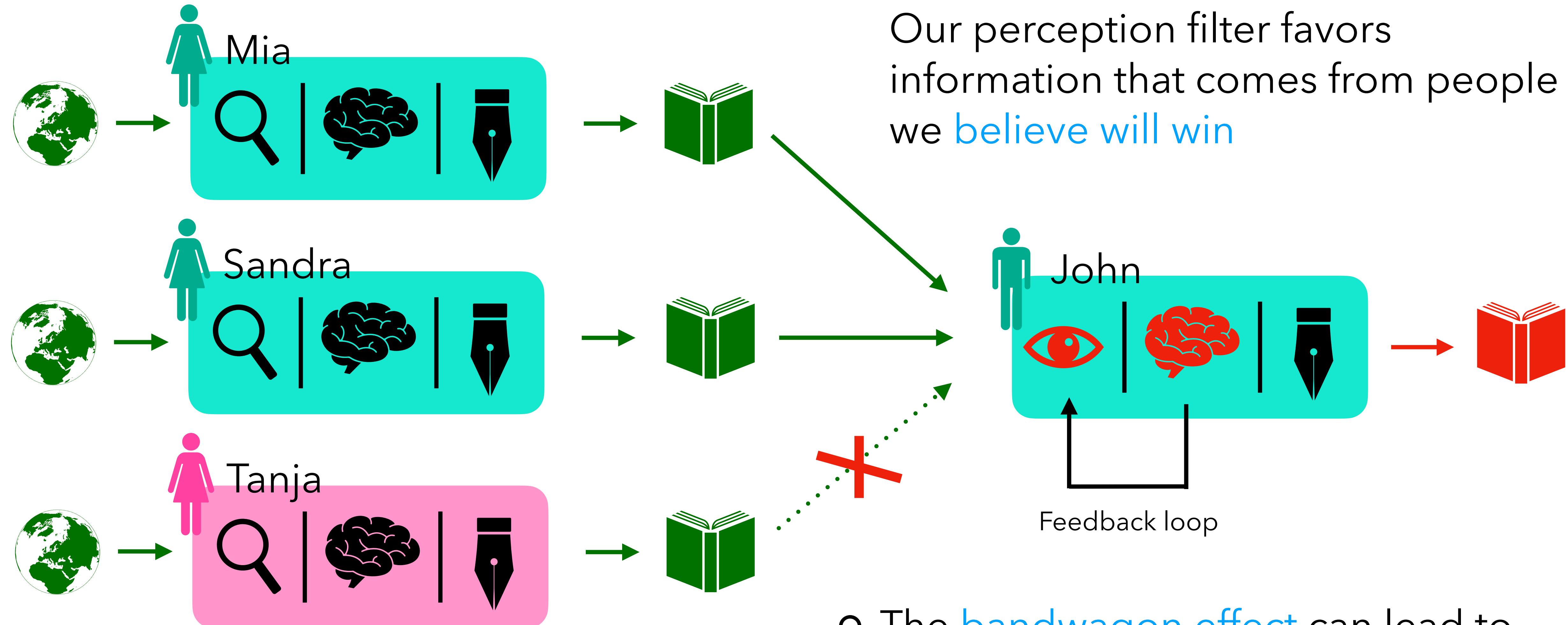
4. Overreliance on trusted sources



4. Mitigating overreliance on trusted sources



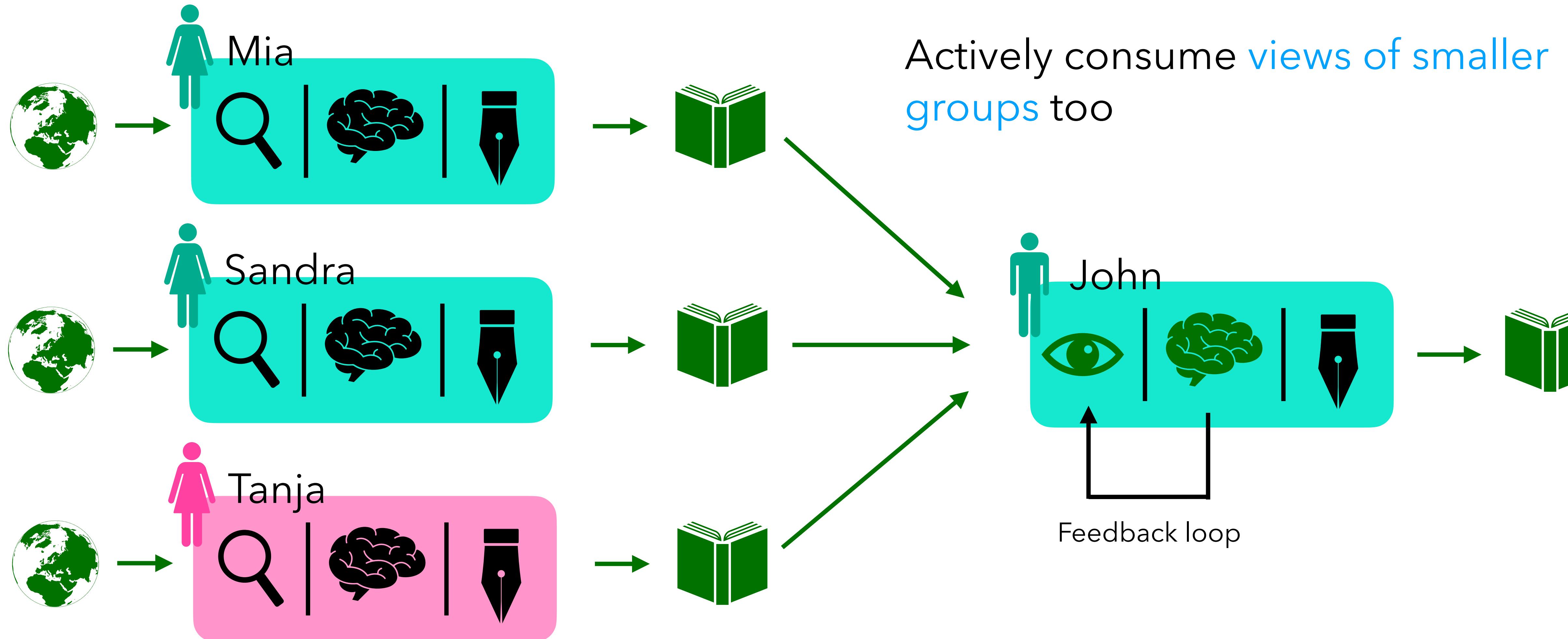
5. The bandwagon effect



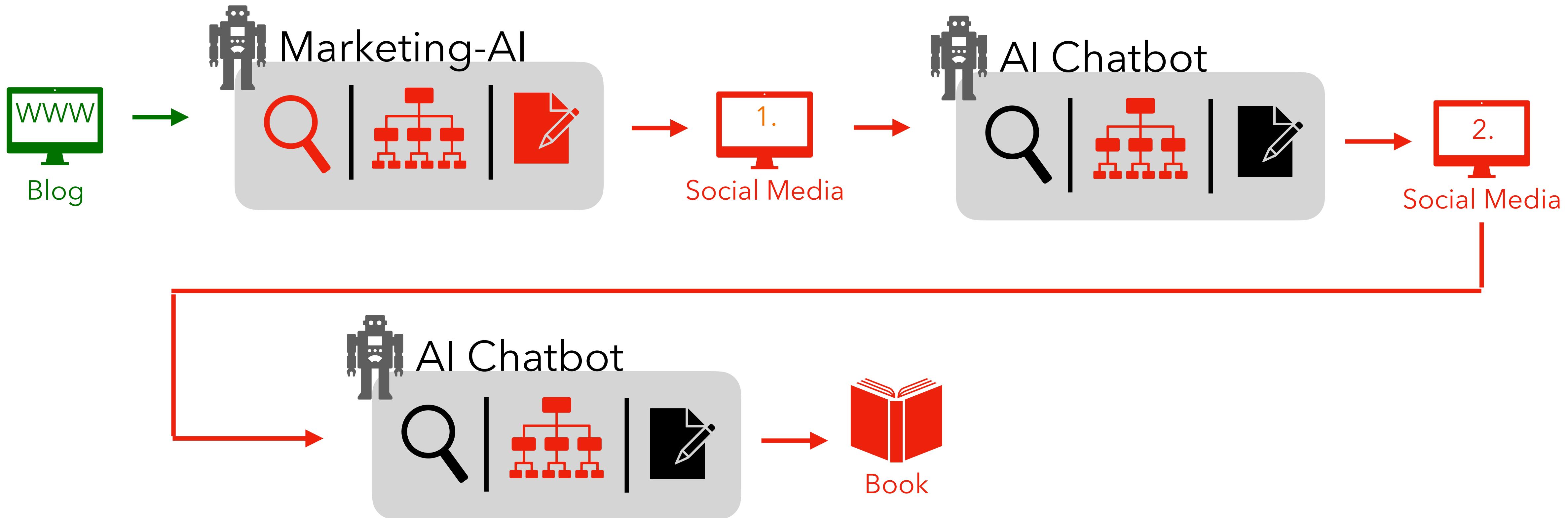
- The **bandwagon effect** can lead to echo chambers and **polarization**

- New ideas are easily **overlooked**

5. Mitigating the bandwagon effect

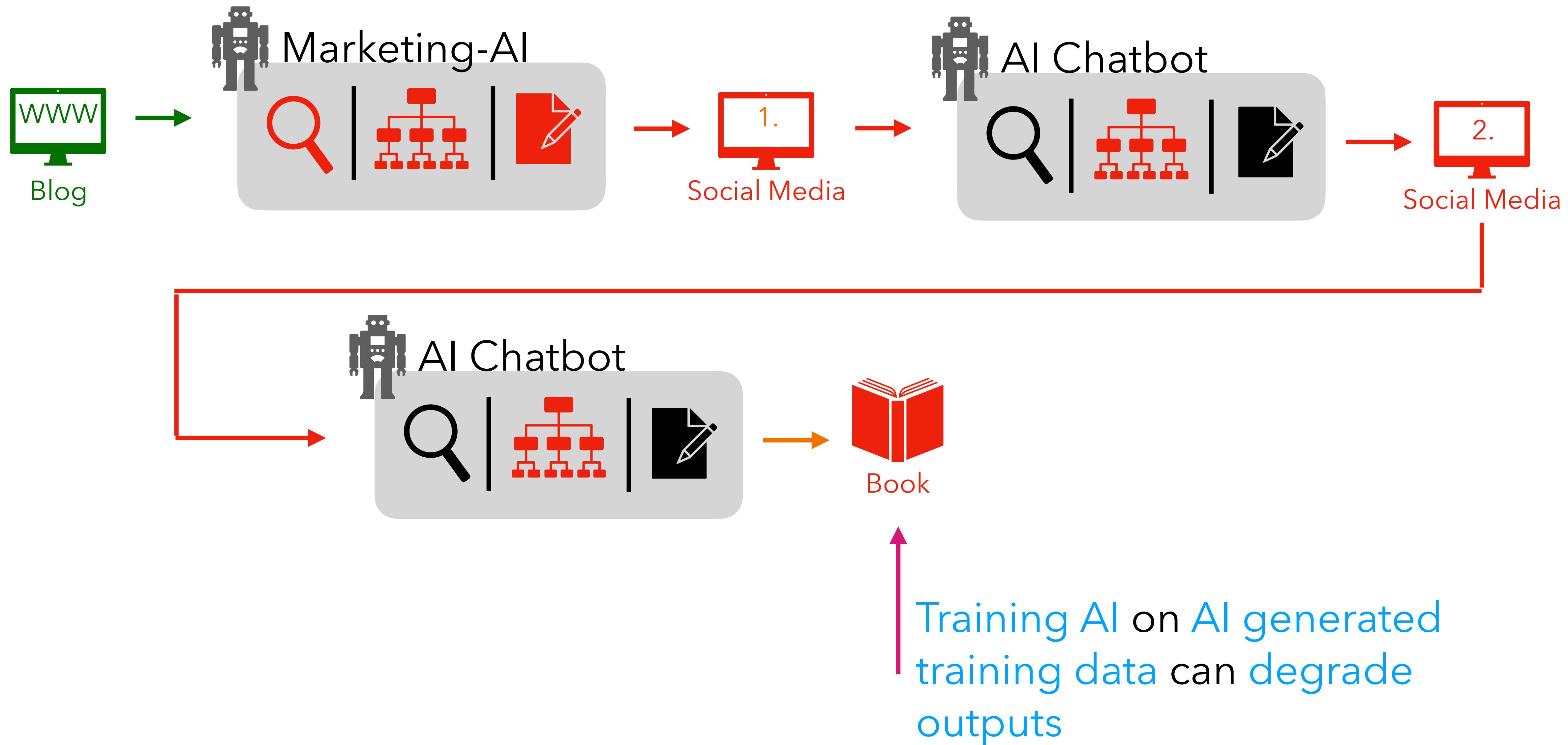


6. The „poisoned well“

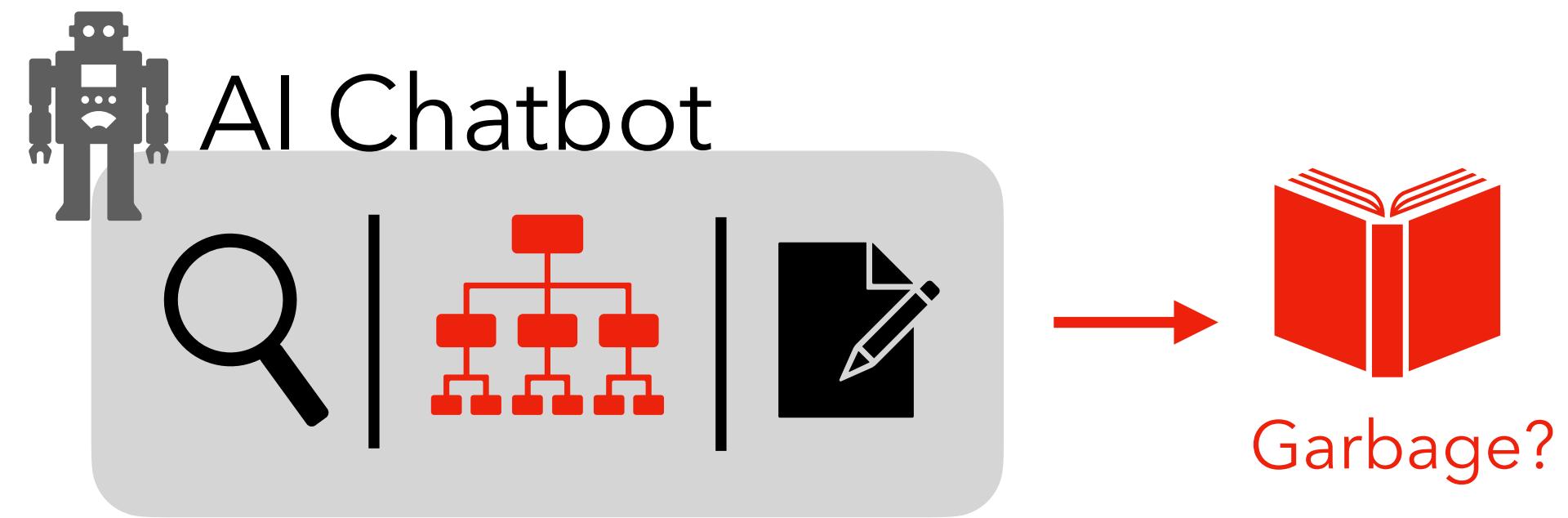


AI-generated content is increasingly being used as training data for AI systems

6. The „poisoned well“

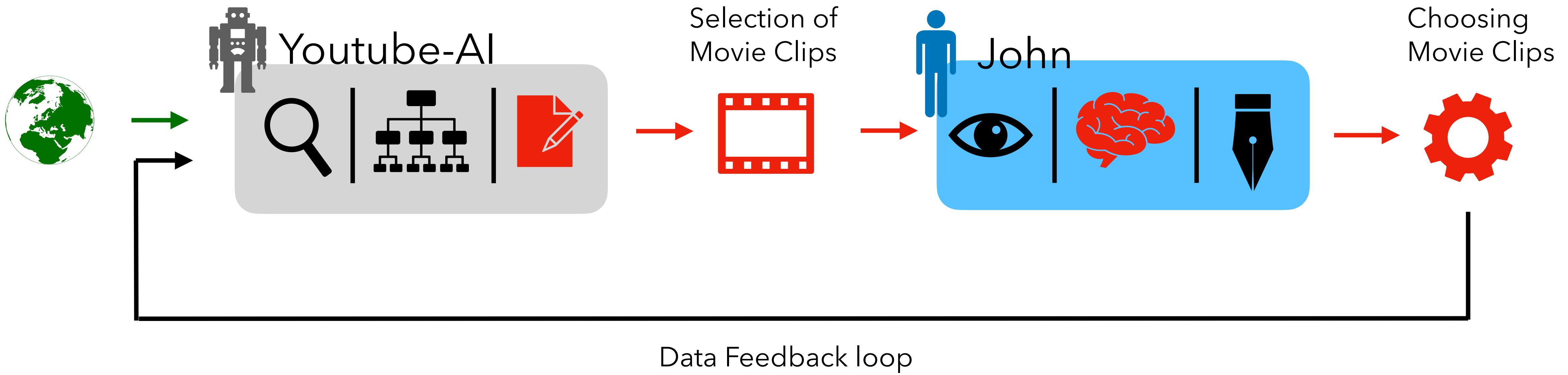


6. Avoiding the „poisoned well” problem



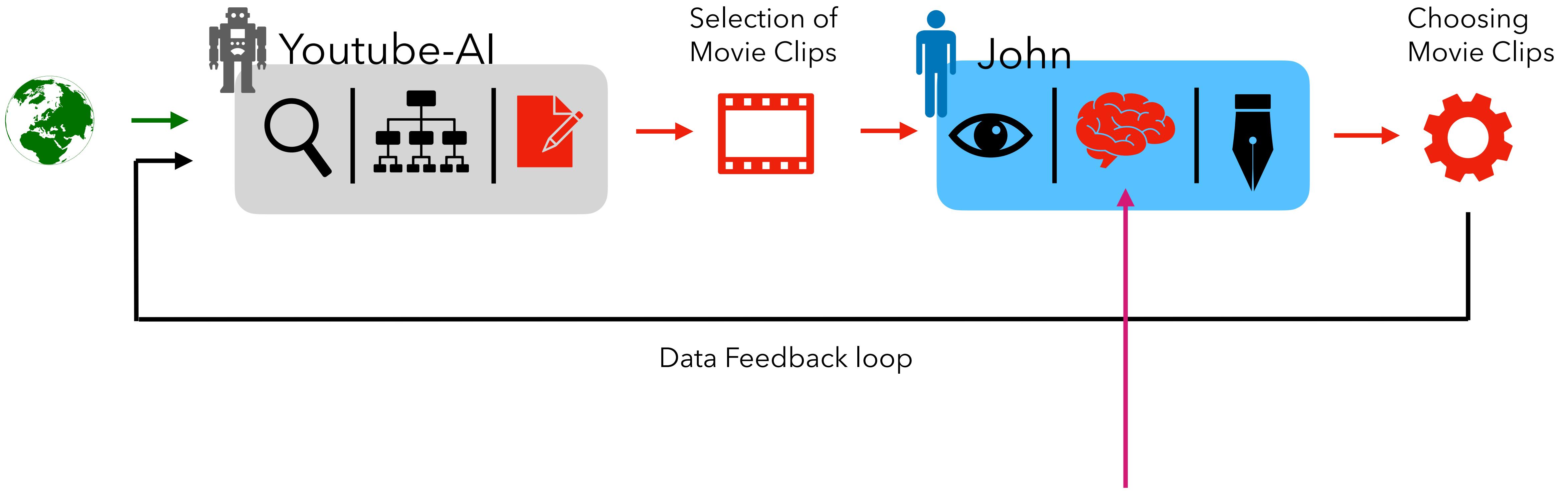
Never fully trust AI, even if the output is highly polished and sounds super convincing

7. The „filter bubble”



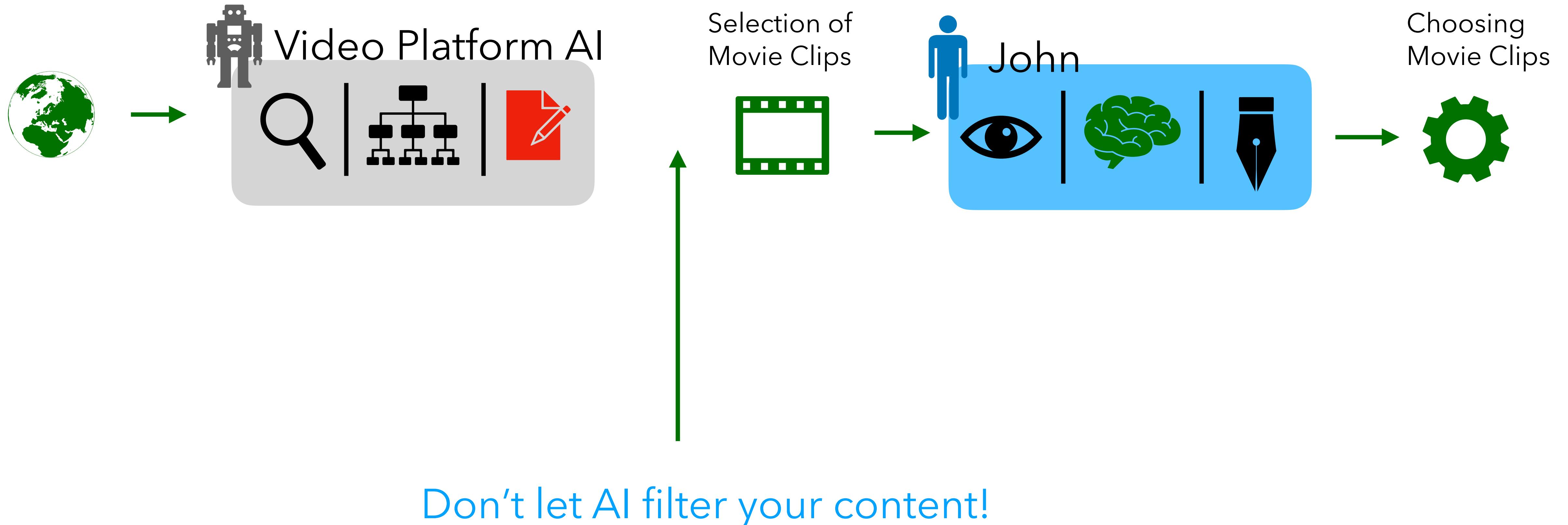
AI is filtering the content we see according to our viewing preferences

7. The „filter bubble”

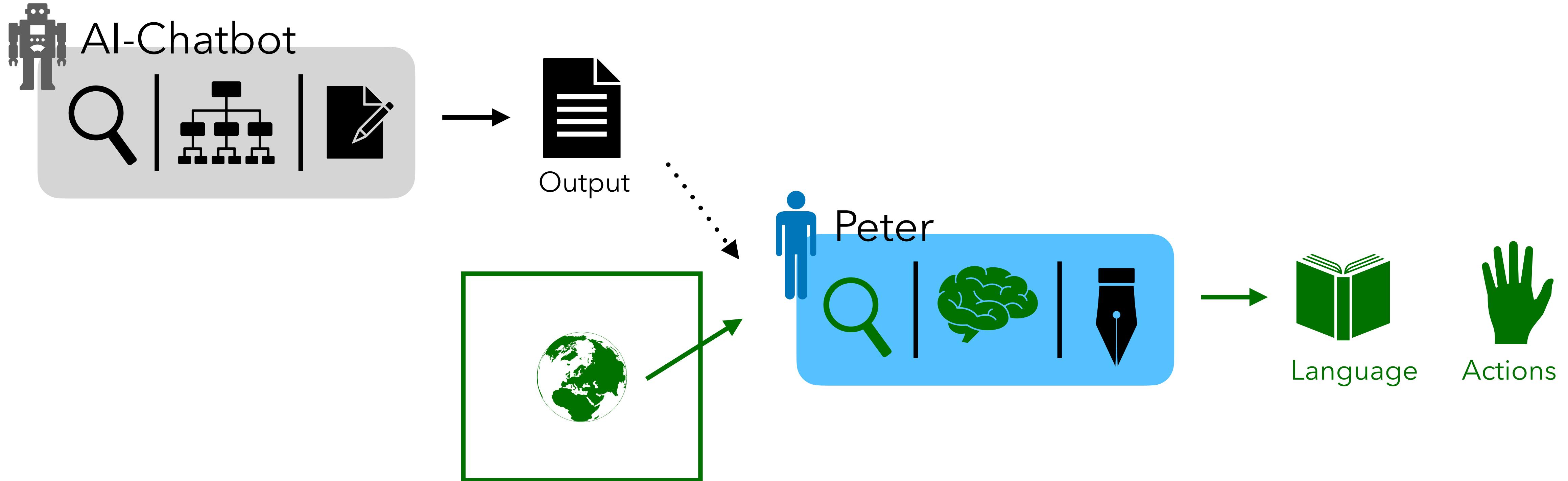


Filter bubbles can lead to a distorted view of reality

7. Avoiding the „filter bubble”

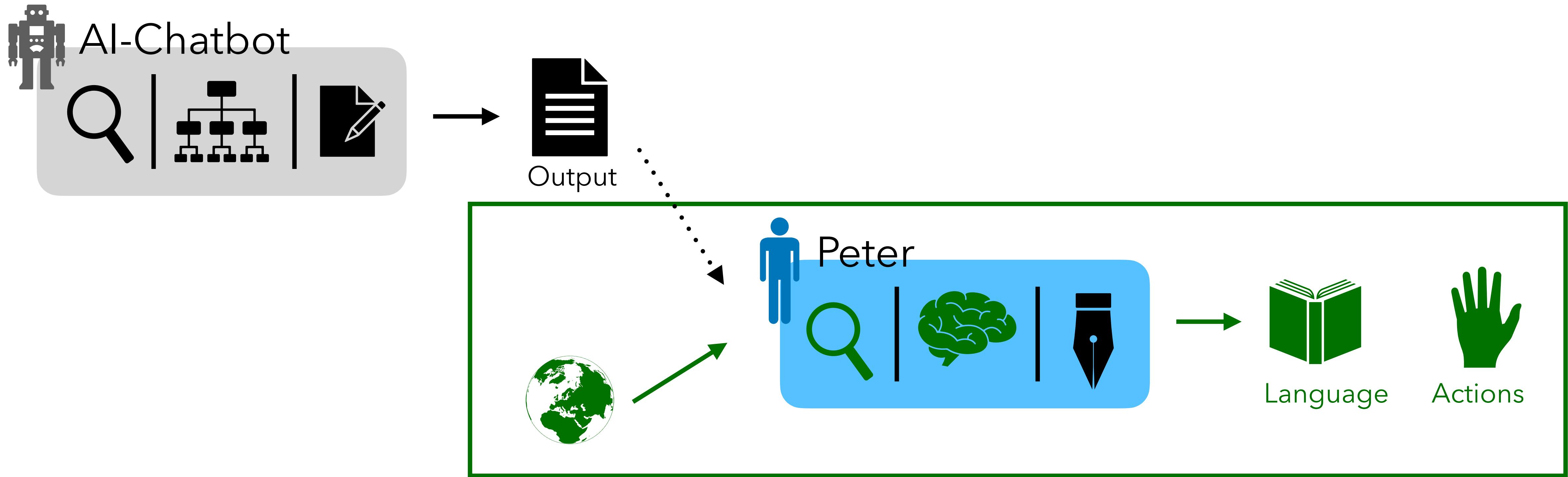


8. General strategies



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

8. General strategies



Treasure your analog life!