

# Fragebogen

## 1 General\_Instruction

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### Trigger:

Zufallstrigger - rand - realizes pseudo randomization of subjects - Bedingung: - Ausführungsposition: "nach dem Abschicken, vor Filtern"  
c\_0001 = BALANCED RAND (1 , 4)

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Dear participant,

thank you very much for your participation in this experiment in which we investigate causal reasoning.

On the next screens, we will show a fictitious scenario that we use to investigate this issue.

Please take your time and make sure that you fully understand the scenario. This is important for us because we will later ask you to provide particular judgments. Please note that we are interested in your **intuitive decisions**.

Finally, please notice that your participation in this study is fully anonymous and that we guarantee that we do not collect any personal information. You can quit the study at any time by simply closing the browser window.

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*This research is conducted under the scientific direction of:  
Dr. Simon Stephan  
Department of Cognitive and Decision Sciences,  
University of Göttingen, Germany.*

### **Before you start, please:**

- **maximize your browser window;**
- **switch off phone/e-mail/music & anything else distracting**
- **and please enter your Prolific ID [it can be found at the top of this webpage or when going to your account info]:**

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## 2 Filter Joint\_Eval

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c\_0001 condition Benutzerdefinierte Variable - condition (von Seite : System) größer gleich 1

and c\_0001 condition Benutzerdefinierte Variable - condition (von Seite : System) kleiner gleich 2

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### 2.1 Filter Target\_MultipleEffectCause

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c\_0001 condition Benutzerdefinierte Variable - condition (von Seite : System) gleich 1

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#### 2.1.1.1 blue\_diverse\_red\_vision

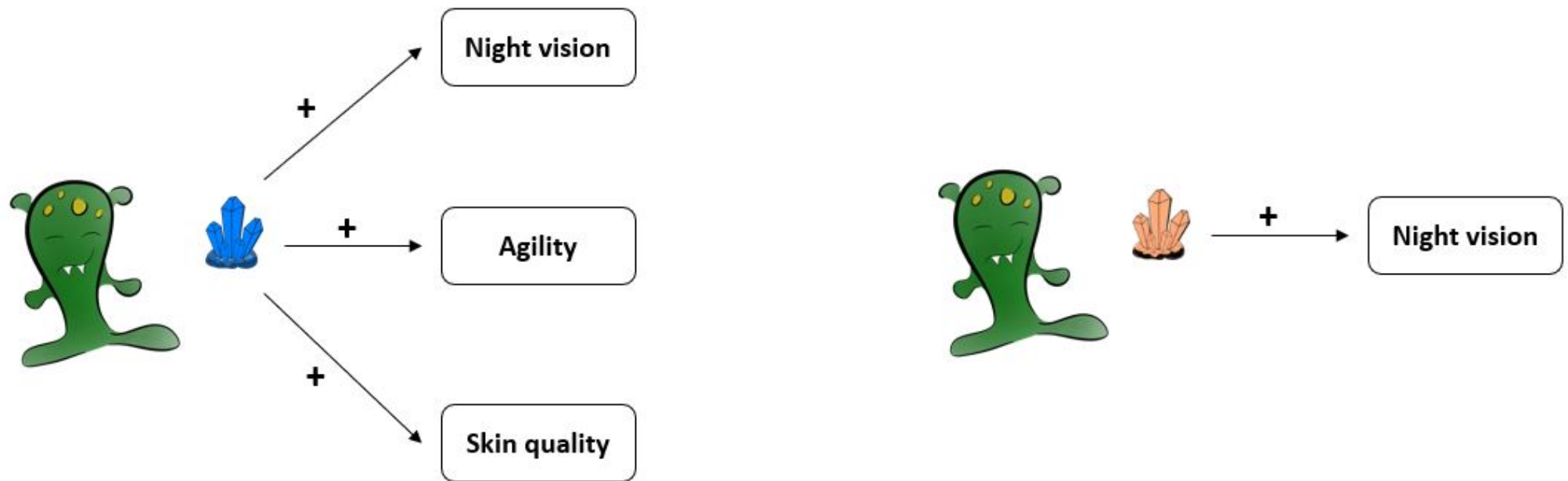
---

*Please read the following scenario:*

A remote planet of our galaxy, called Morgania, is inhabited by tiny Aliens, called Morganians. The regular diet of Morganians consists of plants of different types. From time to time, however, Morganians also seek and swallow particular crystals because these crystals can lead to positive effects. There are two different types of crystals, *blue* and *red*.

Blue crystals possess the capacity to produce *multiple positive* effects. Blue crystals can lead to improved *night vision*, improved *agility*, and improved *skin quality*.

Red crystals possess the capacity to produce a *single* positive effect. Red crystals can lead to improved *night vision*.



We now would like to get to know your intuition about the causal strength with which eating blue crystals causes improved night vision. To express your intuition about the causal strength, please answer the following question:

**What do you think is the probability with which eating blue crystals leads to improved night vision?**

*Please use the following rating scale to provide your estimation.*

- It never leads to improved night vision
- 
- 
- 
- 
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- 50:50
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  - 
  - It always leads to improved night vision
- 

### 2.1.1.2 blue\_diverse\_red\_agility

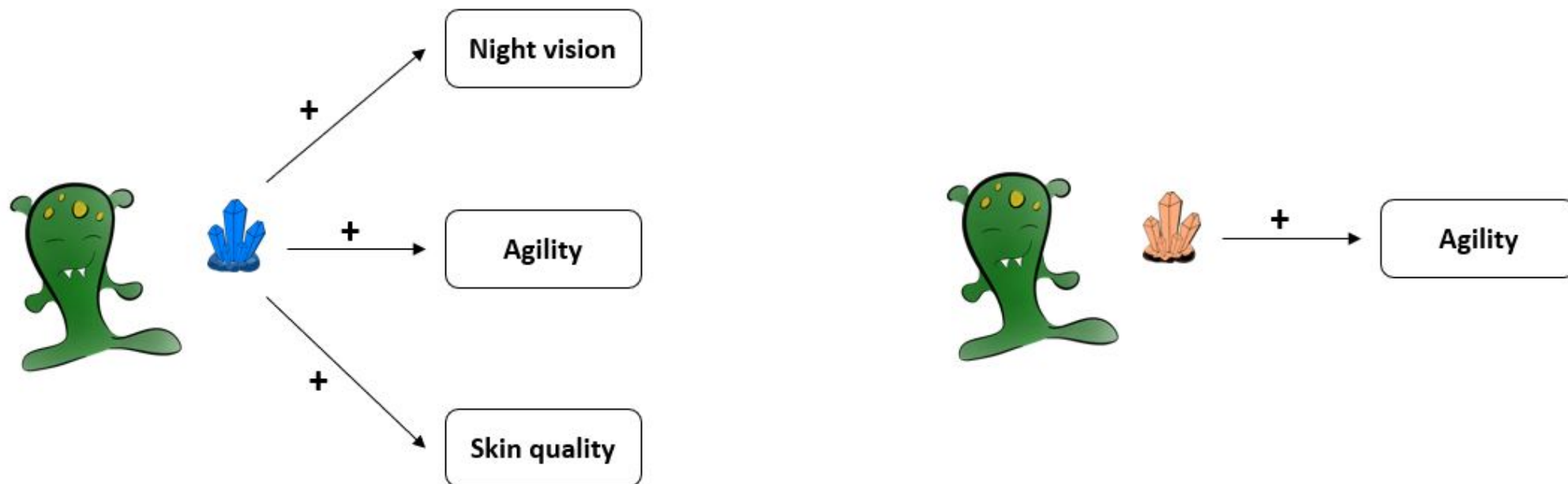
---

*Please read the following scenario:*

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Blue crystals possess the capacity to produce *multiple positive* effects. Blue crystals can lead to improved *night vision*, improved *agility*, and improved *skin quality*.

Red crystals possess the capacity to produce a *single* positive effect. Red crystals can lead to improved *agility*.



We now would like to get to know your intuition about the causal strength with which eating blue crystals causes improved agility. To express your intuition about the causal strength, please answer the following question:

**What do you think is the probability with which eating blue crystals leads to improved agility?**

*Please use the following rating scale to provide your estimation.*

- It never leads to improved agility
- 
- 
- 
- 
-

- 50:50
  - 
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  - 
  - It always leads to improved agility
- 

### 2.1.1.3 blue\_diverse\_red\_skin

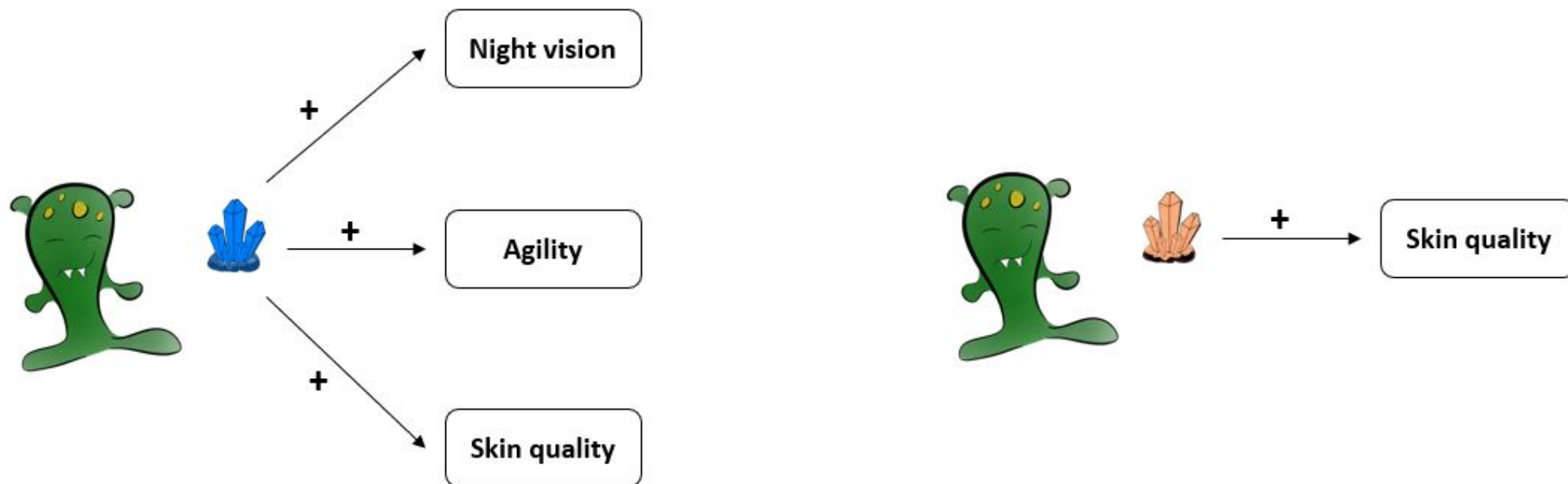
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*Please read the following scenario:*

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Blue crystals possess the capacity to produce *multiple positive* effects. Blue crystals can lead to improved *night vision*, improved *agility*, and improved *skin quality*.

Red crystals possess the capacity to produce a *single* positive effect. Red crystals can lead to improved *skin quality*.



We now would like to get to know your intuition about the causal strength with which eating blue crystals causes improved skin quality. To express your intuition about the causal strength, please answer the following question:

**What do you think is the probability with which eating blue crystals leads to improved skin quality?**

*Please use the following rating scale to provide your estimation.*

- It never leads to improved skin quality
- 
- 
- 
- 
-

- 50:50
  - 
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  - 
  - 
  - It always leads to improved skin quality
- 

#### **2.1.1.4 red\_diverse\_blue\_vision**

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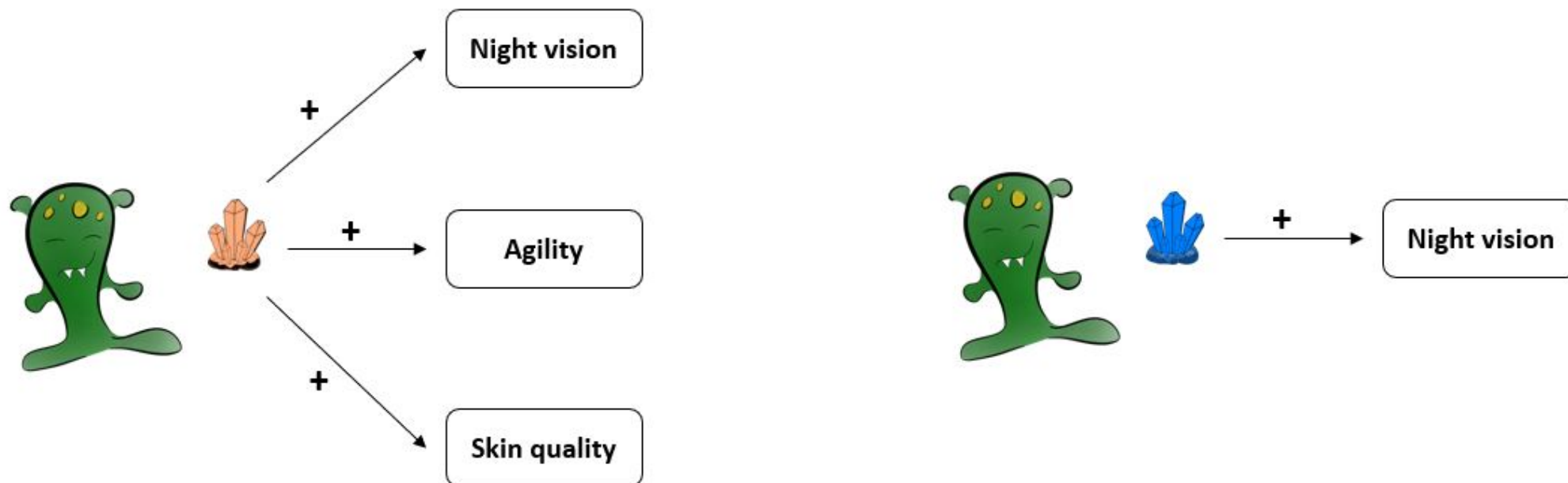
*Please read the following scenario:*

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Red crystals possess the capacity to produce *multiple positive* effects. Red crystals can lead to improved *night vision*, improved *agility*, and improved *skin quality*.

Blue crystals possess the capacity to produce a *single* positive effect. Blue crystals can lead to improved *night vision*.





We now would like to get to know your intuition about the causal strength with which eating red crystals causes improved night vision. To express your intuition about the causal strength, please answer the following question:

**What do you think is the probability with which eating red crystals leads to improved night vision?**

*Please use the following rating scale to provide your estimation.*

- It never leads to improved night vision
- 
- 
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50:50

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- It always leads to improved night vision

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### 2.1.1.5 red\_diverse\_blue\_agility

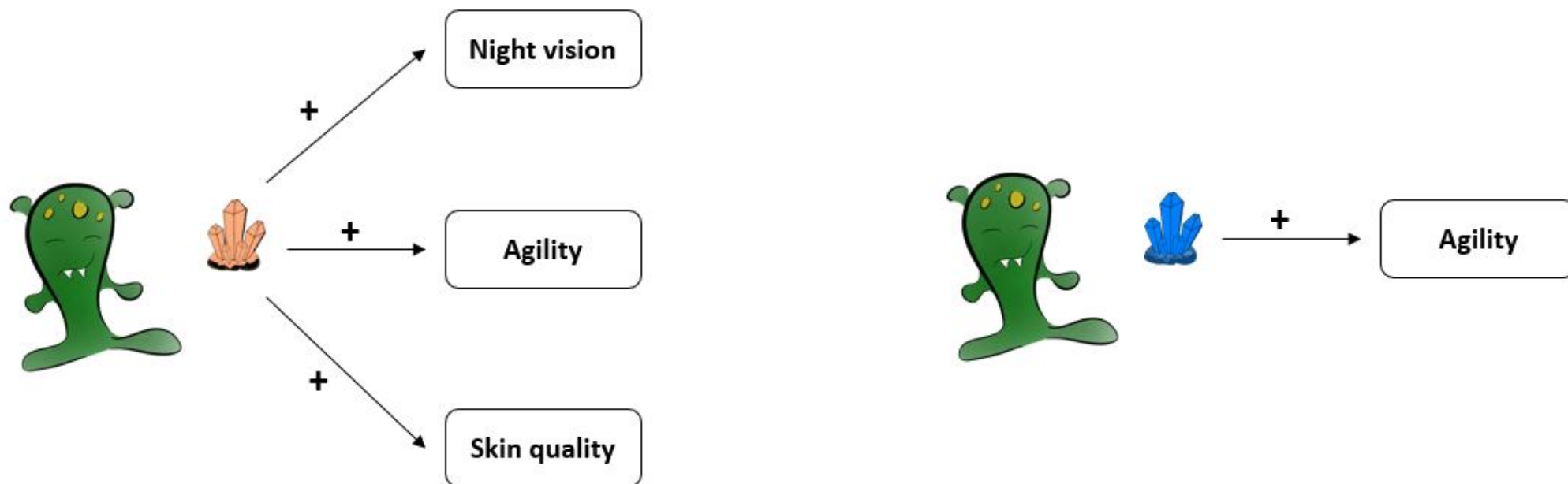
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*Please read the following scenario:*

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Red crystals possess the capacity to produce *multiple positive* effects. Red crystals can lead to improved *night vision*, improved *agility*, and improved *skin quality*.

Blue crystals possess the capacity to produce a *single* positive effect. Blue crystals can lead to improved *agility*.



We now would like to get to know your intuition about the causal strength with which eating red crystals causes improved agility. To express your intuition about the causal strength, please answer the following question:

**What do you think is the probability with which eating red crystals leads to improved agility?**

*Please use the following rating scale to provide your estimation.*

- It never leads to improved agility
- 
- 
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- 
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- 50:50
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- It always leads to improved agility

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### 2.1.1.6 red\_diverse\_blue\_skin

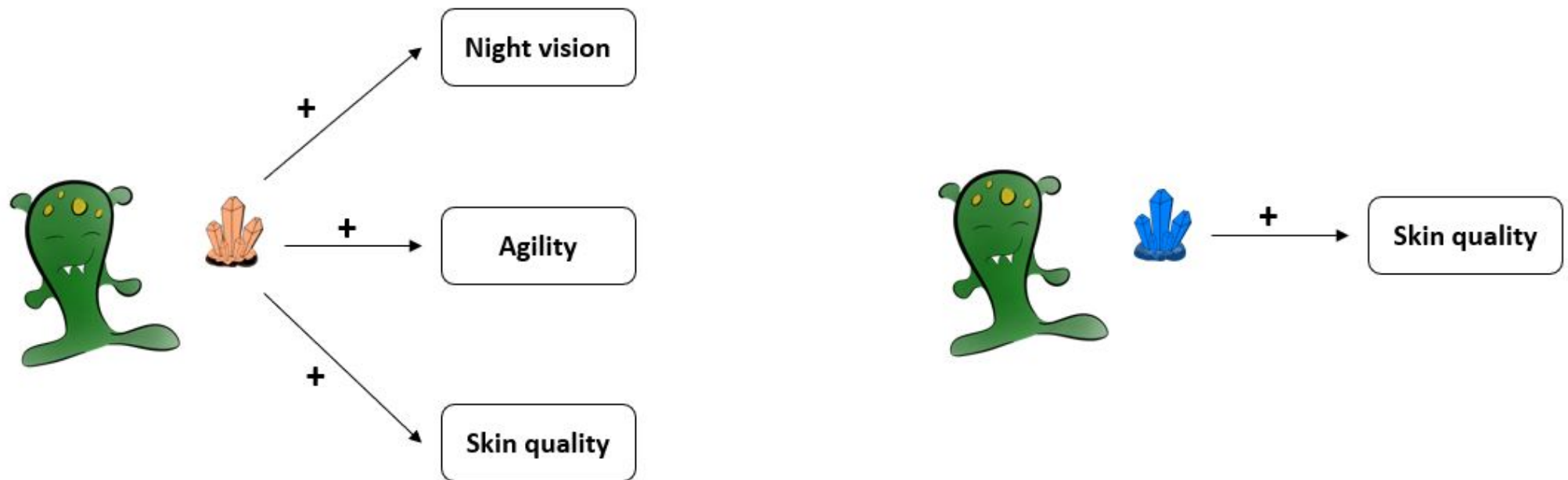
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*Please read the following scenario:*

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Red crystals possess the capacity to produce *multiple positive* effects. Red crystals can lead to improved *night vision*, improved *agility*, and improved *skin quality*.

Blue crystals possess the capacity to produce a *single* positive effect. Blue crystals can lead to improved *skin quality*.



We now would like to get to know your intuition about the causal strength with which eating red crystals causes improved skin quality. To express your intuition about the causal strength, please answer the following question:

**What do you think is the probability with which eating red crystals leads to improved skin quality?**

*Please use the following rating scale to provide your estimation.*

- It never leads to improved skin quality
- 
- 
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- 
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- 50:50
- 
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- 
- 
- It always leads to improved skin quality

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## 2.2 Filter Target\_SingleEffectCause

c\_0001 condition Benutzerdefinierte Variable - condition (von Seite : System) gleich 2

### 2.2.1.1 blue\_diverse\_red\_vision

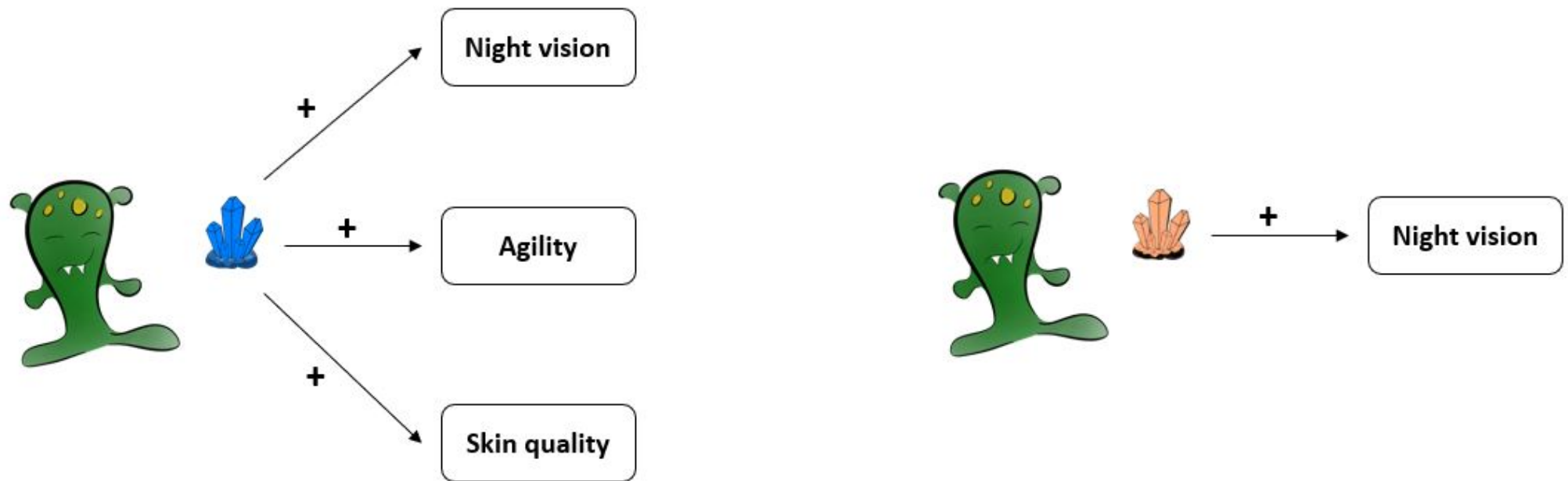
---

*Please read the following scenario:*

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Blue crystals possess the capacity to produce *multiple positive* effects. Blue crystals can lead to improved *night vision*, improved *agility*, and improved *skin quality*.

Red crystals possess the capacity to produce a *single* positive effect. Red crystals can lead to improved *night vision*.



We now would like to get to know your intuition about the causal strength with which eating red crystals causes improved night vision. To express your intuition about the causal strength, please answer the following question:

**What do you think is the probability with which eating red crystals leads to improved night vision?**

*Please use the following rating scale to provide your estimation.*

- It never leads to improved night vision
- 
- 
- 
- 
-

- 50:50
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  - 
  - 
  - It always leads to improved night vision
- 

### 2.2.1.2 blue\_diverse\_red\_agility

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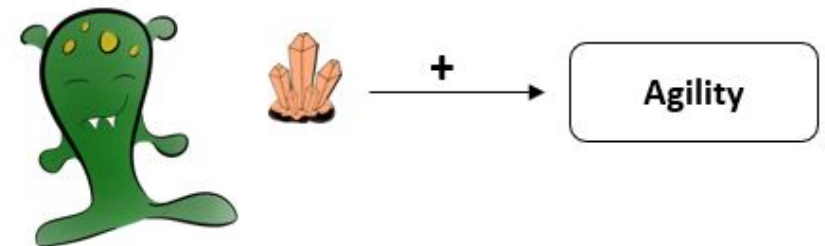
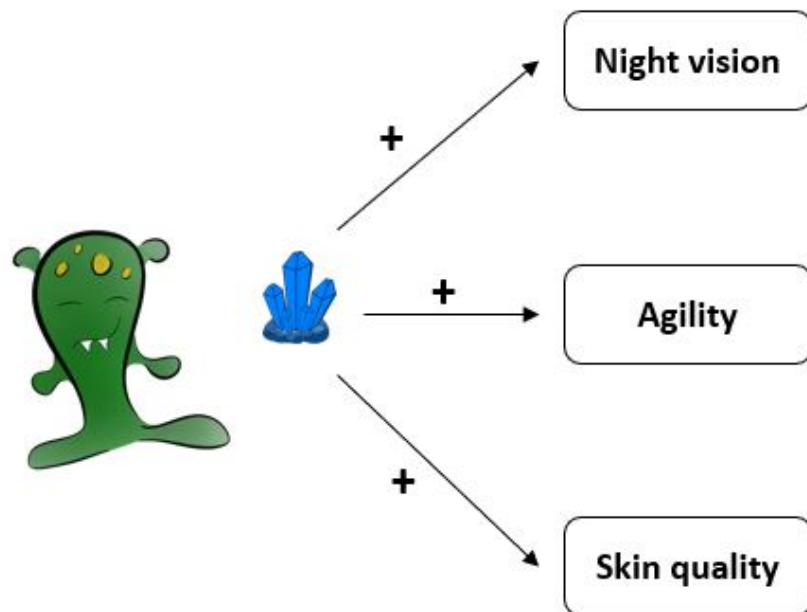
*Please read the following scenario:*

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Blue crystals possess the capacity to produce *multiple positive* effects. Blue crystals can lead to improved *night vision*, improved *agility*, and improved *skin quality*.

Red crystals possess the capacity to produce a *single* positive effect. Red crystals can lead to improved *agility*.





We now would like to get to know your intuition about the causal strength with which eating red crystals causes improved agility. To express your intuition about the causal strength, please answer the following question:

**What do you think is the probability with which eating red crystals leads to improved agility?**

*Please use the following rating scale to provide your estimation.*

- It never leads to improved agility
- 
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- 
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- 50:50
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  - 
  - It always leads to improved agility
- 

### 2.2.1.3 blue\_diverse\_red\_skin

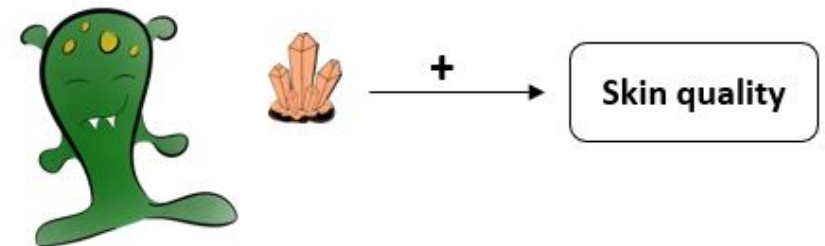
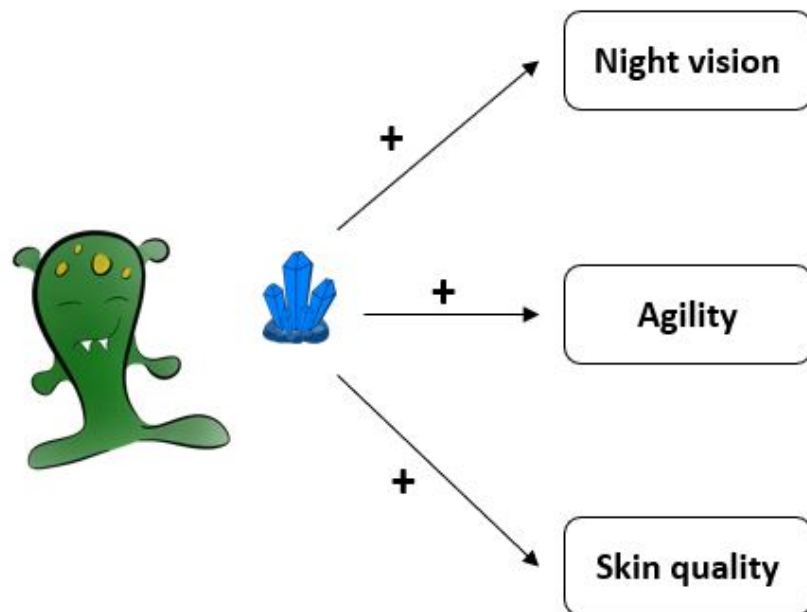
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*Please read the following scenario:*

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Blue crystals possess the capacity to produce *multiple positive* effects. Blue crystals can lead to improved *night vision*, improved *agility*, and improved *skin quality*.

Red crystals possess the capacity to produce a *single* positive effect. Red crystals can lead to improved *skin quality*.



We now would like to get to know your intuition about the causal strength with which eating red crystals causes improved skin quality. To express your intuition about the causal strength, please answer the following question:

**What do you think is the probability with which eating red crystals leads to improved skin quality?**

*Please use the following rating scale to provide your estimation.*

- It never leads to improved skin quality
- 
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- 
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- 50:50
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  - 
  - It always leads to improved skin quality
- 

#### **2.2.1.4 red\_diverse\_blue\_vision**

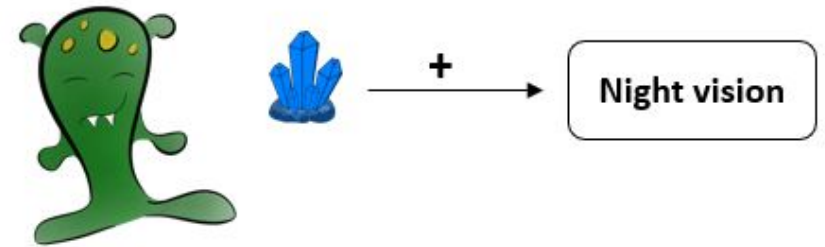
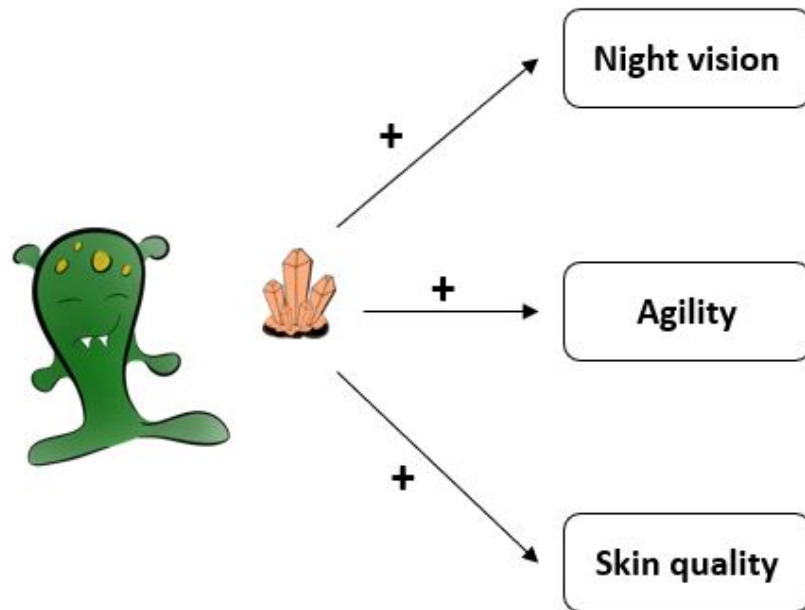
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*Please read the following scenario:*

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Red crystals possess the capacity to produce *multiple positive* effects. Red crystals can lead to improved *night vision*, improved *agility*, and improved *skin quality*.

Blue crystals possess the capacity to produce a *single* positive effect. Blue crystals can lead to improved *night vision*.



We now would like to get to know your intuition about the causal strength with which eating blue crystals causes improved night vision. To express your intuition about the causal strength, please answer the following question:

**What do you think is the probability with which eating blue crystals leads to improved night vision?**

*Please use the following rating scale to provide your estimation.*

- It never leads to improved night vision
- 
- 
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- 
-

50:50

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- 
- It always leads to improved night vision

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### 2.2.1.5 red\_diverse\_blue\_agility

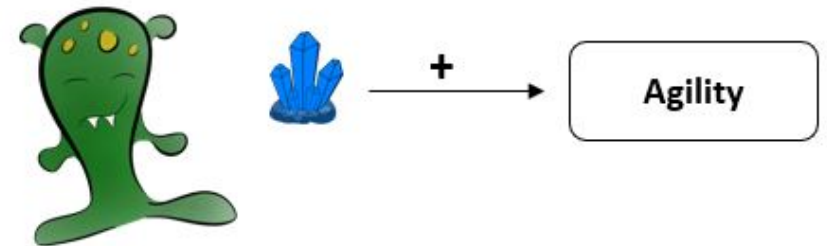
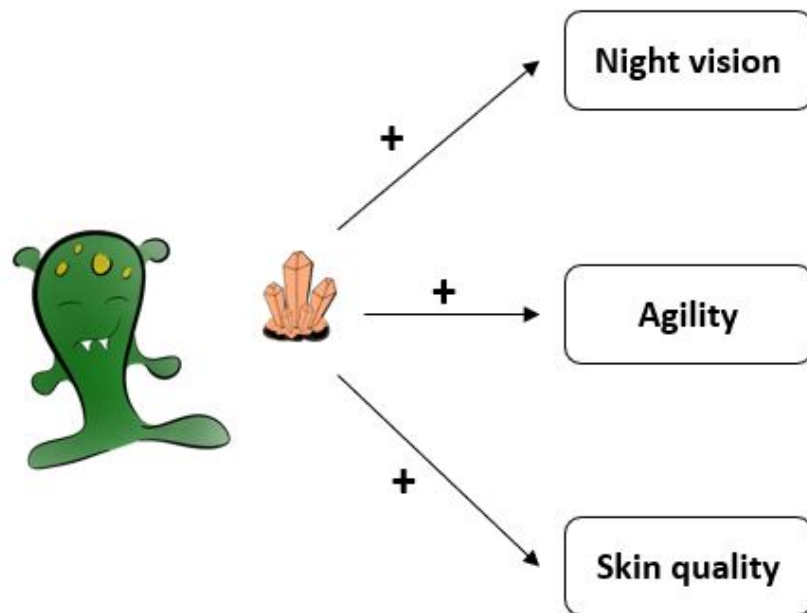
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*Please read the following scenario:*

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Red crystals possess the capacity to produce *multiple positive* effects. Red crystals can lead to improved *night vision*, improved *agility*, and improved *skin quality*.

Blue crystals possess the capacity to produce a *single* positive effect. Blue crystals can lead to improved *agility*.



We now would like to get to know your intuition about the causal strength with which eating blue crystals causes improved agility. To express your intuition about the causal strength, please answer the following question:

**What do you think is the probability with which eating blue crystals leads to improved agility?**

*Please use the following rating scale to provide your estimation.*

- It never leads to improved agility
- 
- 
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- 
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- 50:50
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  - 
  - 
  - It always leads to improved agility
- 

### 2.2.1.6 red\_diverse\_blue\_skin

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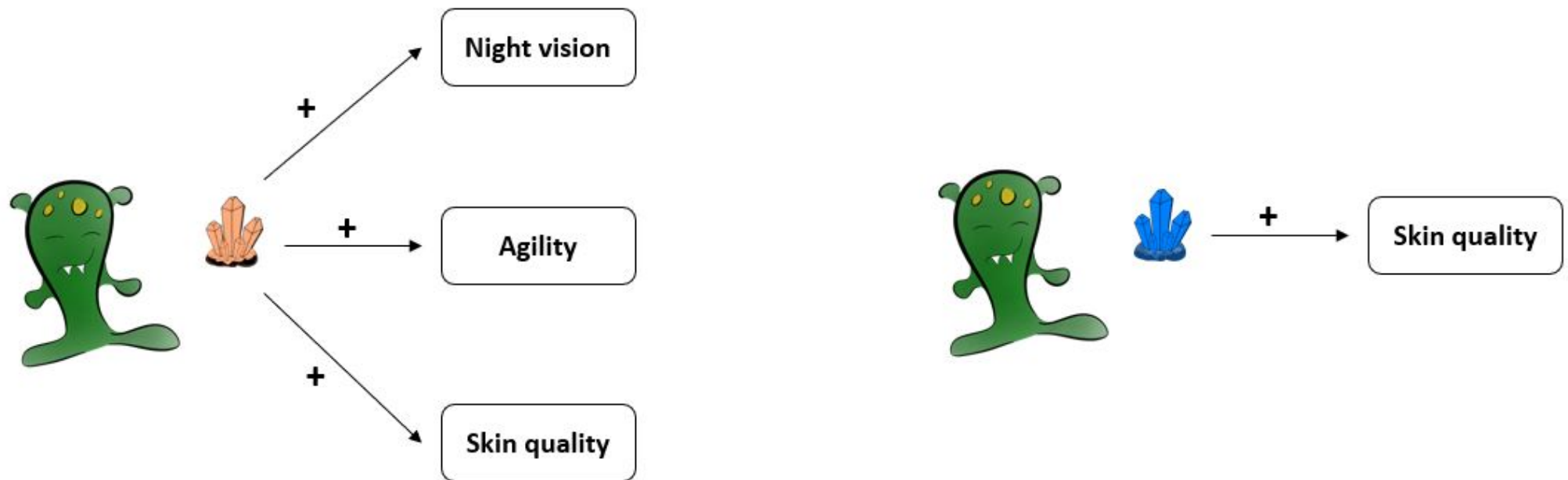
*Please read the following scenario:*

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Red crystals possess the capacity to produce *multiple positive* effects. Red crystals can lead to improved *night vision*, improved *agility*, and improved *skin quality*.

Blue crystals possess the capacity to produce a *single* positive effect. Blue crystals can lead to improved *skin quality*.





We now would like to get to know your intuition about the causal strength with which eating blue crystals causes improved skin quality. To express your intuition about the causal strength, please answer the following question:

**What do you think is the probability with which eating blue crystals leads to improved skin quality?**

*Please use the following rating scale to provide your estimation.*

- It never leads to improved skin quality
- 
- 
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- 
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- 50:50
- 
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- It always leads to improved skin quality

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### 3 Filter Separate\_Eval

c\_0001 condition Benutzerdefinierte Variable - condition (von Seite : System) größer gleich 2  
and c\_0001 condition Benutzerdefinierte Variable - condition (von Seite : System) kleiner gleich 4

#### 3.1 Filter Target\_MultipleEffectCause

c\_0001 condition Benutzerdefinierte Variable - condition (von Seite : System) gleich 3

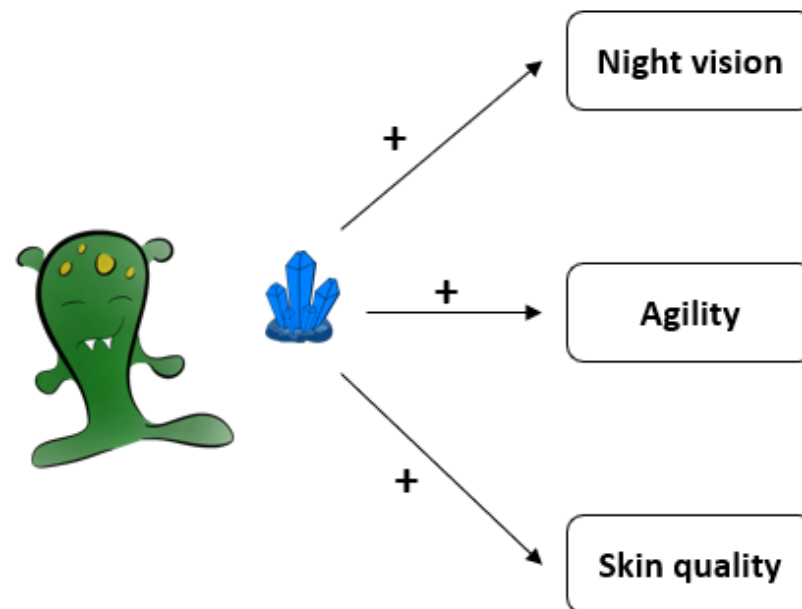
##### 3.1.1.1 blue\_diverse\_red\_vision

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*Please read the following scenario:*

A remote planet of our galaxy, called Morgania, is inhabited by tiny Aliens, called Morganians. The regular diet of Morganians consists of plants of different types. From time to time, however, Morganians also seek and swallow blue crystals because these crystals can lead to positive effects.

Blue crystals possess the capacity to produce *multiple* positive effects. Blue crystals can lead to improved *night vision*, improved *agility*, and improved *skin quality*.



We now would like to get to know your intuition about the causal strength with which eating blue crystals causes improved night vision. To express your intuition about the causal strength, please answer the following question:

**What do you think is the probability with which eating blue crystals leads to improved night vision?**

*Please use the following rating scale to provide your estimation.*

- It never leads to improved night vision
- 
- 
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- 
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- 50:50
  - 
  - 
  - 
  - 
  - It always leads to improved night vision
- 

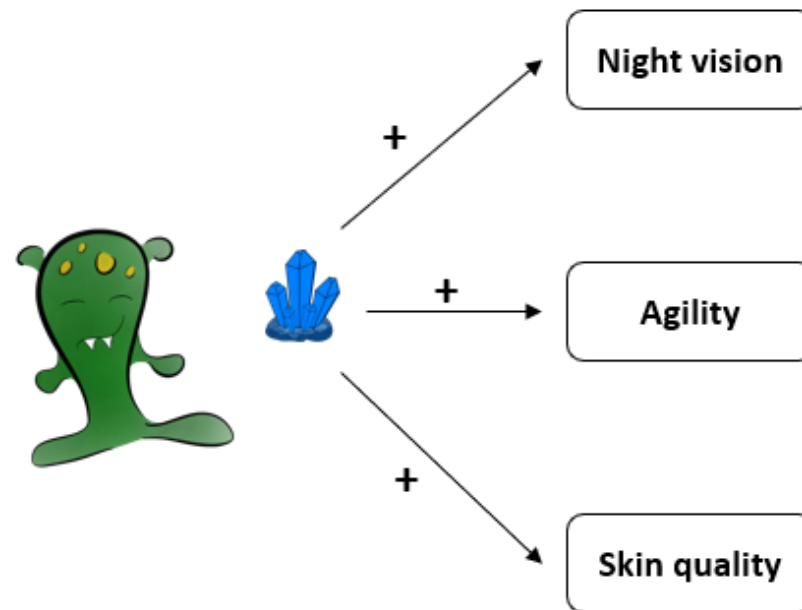
### 3.1.1.2 blue\_diverse\_red\_agility

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*Please read the following scenario:*

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Blue crystals possess the capacity to produce *multiple* positive effects. Blue crystals can lead to improved *night vision*, improved *agility*, and improved *skin quality*.



We now would like to get to know your intuition about the causal strength with which eating blue crystals causes improved agility. To express your intuition about the causal strength, please answer the following question:

**What do you think is the probability with which eating blue crystals leads to improved agility?**

*Please use the following rating scale to provide your estimation.*

- It never leads to improved agility
- 
- 
- 
- 
-

- 50:50
  - 
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  - 
  - 
  - It always leads to improved agility
- 

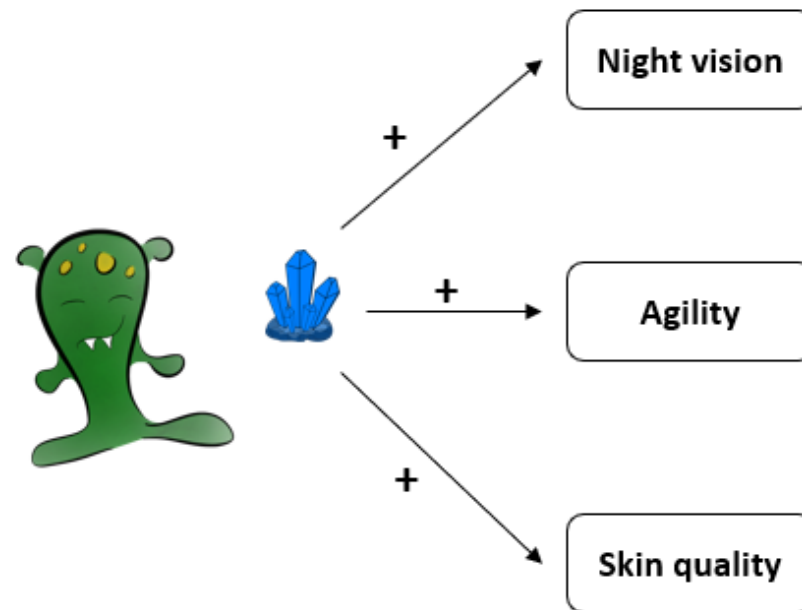
### 3.1.1.3 blue\_diverse\_red\_skin

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*Please read the following scenario:*

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Blue crystals possess the capacity to produce *multiple* positive effects. Blue crystals can lead to improved *night vision*, improved *agility*, and improved *skin quality*.



We now would like to get to know your intuition about the causal strength with which eating blue crystals causes improved skin quality. To express your intuition about the causal strength, please answer the following question:

**What do you think is the probability with which eating blue crystals leads to improved skin quality?**

*Please use the following rating scale to provide your estimation.*

- It never leads to improved skin quality
- 
- 
- 
-

- 50:50
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  - 
  - 
  - It always leads to improved skin quality
- 

#### **3.1.1.4 red\_diverse\_blue\_vision**

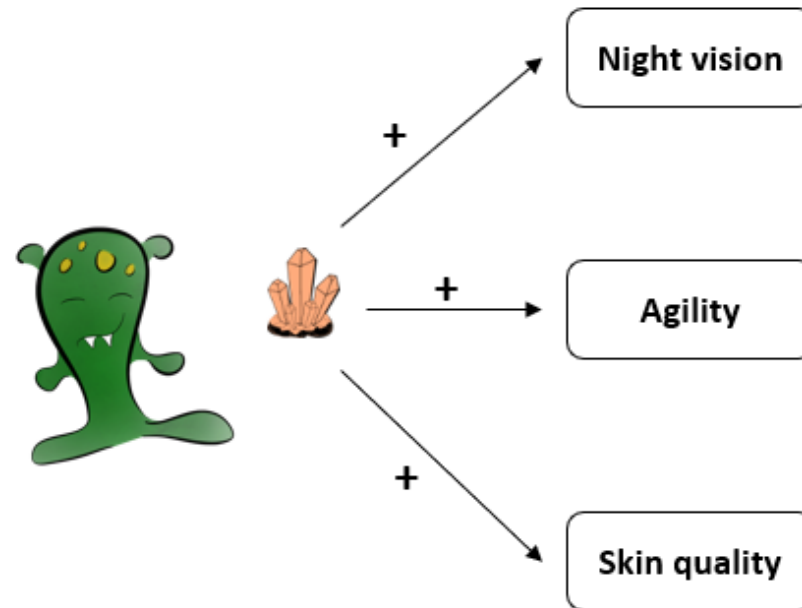
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*Please read the following scenario:*

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Red crystals possess the capacity to produce *multiple* positive effects. Red crystals can lead to improved *night vision*, improved *agility*, and improved *skin quality*.





We now would like to get to know your intuition about the causal strength with which eating red crystals causes improved night vision. To express your intuition about the causal strength, please answer the following question:

**What do you think is the probability with which eating red crystals leads to improved night vision?**

*Please use the following rating scale to provide your estimation.*

- It never leads to improved night vision
- 
- 
- 
- 
-

- 50:50
  - 
  - 
  - 
  - 
  - It always leads to improved night vision
- 

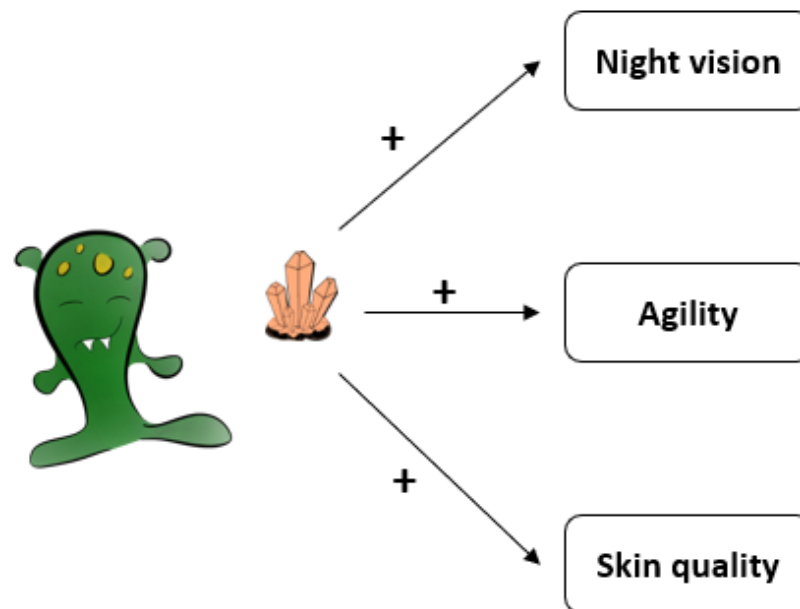
### 3.1.1.5 red\_diverse\_blue\_agility

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*Please read the following scenario:*

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Red crystals possess the capacity to produce *multiple* positive effects. Red crystals can lead to improved *night vision*, improved *agility*, and improved *skin quality*.



We now would like to get to know your intuition about the causal strength with which eating red crystals causes improved agility. To express your intuition about the causal strength, please answer the following question:

**What do you think is the probability with which eating red crystals leads to improved agility?**

*Please use the following rating scale to provide your estimation.*

- It never leads to improved agility
- 
- 
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- 
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- 50:50
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  - It always leads to improved agility
- 

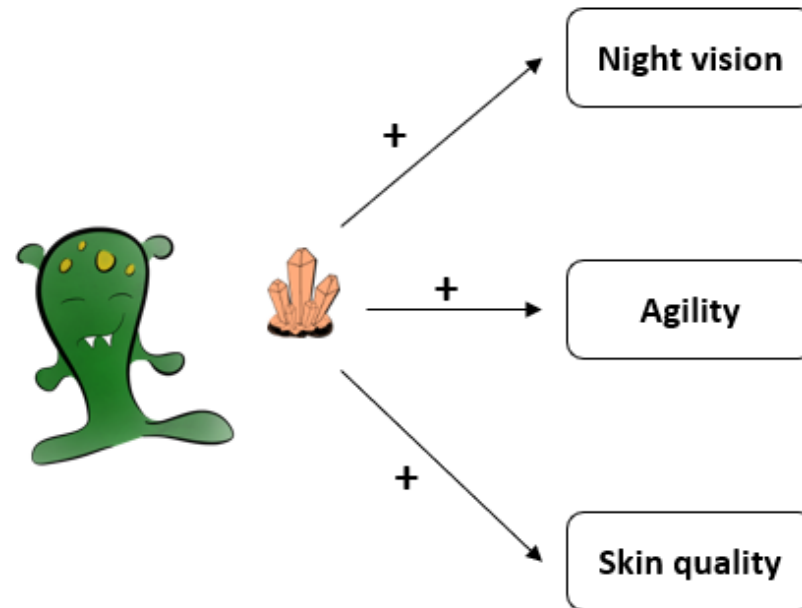
### 3.1.1.6 red\_diverse\_blue\_skin

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*Please read the following scenario:*

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Red crystals possess the capacity to produce *multiple* positive effects. Red crystals can lead to improved *night vision*, improved *agility*, and improved *skin quality*.



We now would like to get to know your intuition about the causal strength with which eating red crystals causes improved skin quality. To express your intuition about the causal strength, please answer the following question:

**What do you think is the probability with which eating red crystals leads to improved skin quality?**

*Please use the following rating scale to provide your estimation.*

- It never leads to improved skin quality
- 
- 
- 
-

- 50:50
  - 
  - 
  - 
  - 
  - It always leads to improved skin quality
- 

### 3.2 Filter Target\_SingleEffectCause

c\_0001 condition Benutzerdefinierte Variable - condition (von Seite : System) gleich 4

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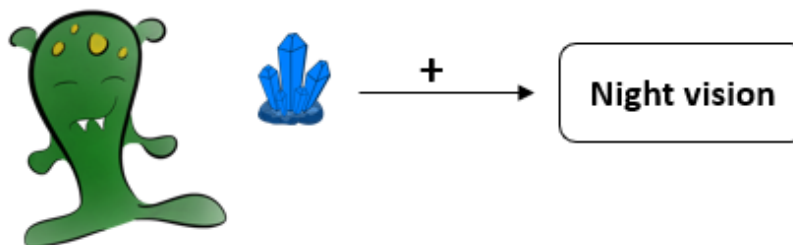
#### 3.2.1.1 blue\_diverse\_red\_vision

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*Please read the following scenario:*

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Blue crystals possess the capacity to produce a *single* positive effect. Blue crystals can lead to improved *night vision*.



We now would like to get to know your intuition about the causal strength with which eating blue crystals causes improved night vision. To express your intuition about the causal strength, please answer the following question:

**What do you think is the probability with which eating blue crystals leads to improved night vision?**

*Please use the following rating scale to provide your estimation.*

- It never leads to improved night vision
- 
- 
- 
-

- 50:50
- 
- 
- 
- 
- It always leads to improved night vision

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### 3.2.1.2 blue\_diverse\_red\_agility

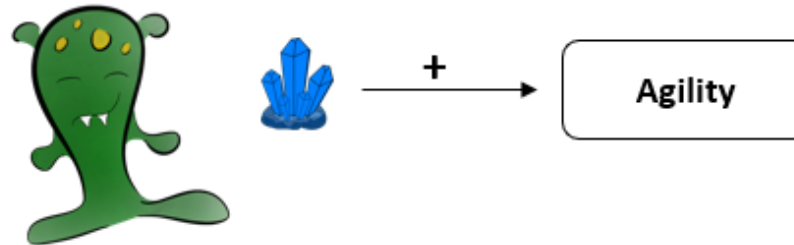
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*Please read the following scenario:*

A remote planet of our galaxy, called Morgania, is inhabited by tiny Aliens, called Morganians. The regular diet of Morganians consists of plants of different types. From time to time, however, Morganians also seek and swallow blue crystals because these crystals can lead to a positive effect.

Blue crystals possess the capacity to produce a *single* positive effect. Blue crystals can lead to improved *agility*.





We now would like to get to know your intuition about the causal strength with which eating blue crystals causes improved agility. To express your intuition about the causal strength, please answer the following question:

**What do you think is the probability with which eating blue crystals leads to improved agility?**

*Please use the following rating scale to provide your estimation.*

- It never leads to improved agility
- 
- 
- 
-

- 50:50
  - 
  - 
  - 
  - 
  - It always leads to improved agility
- 

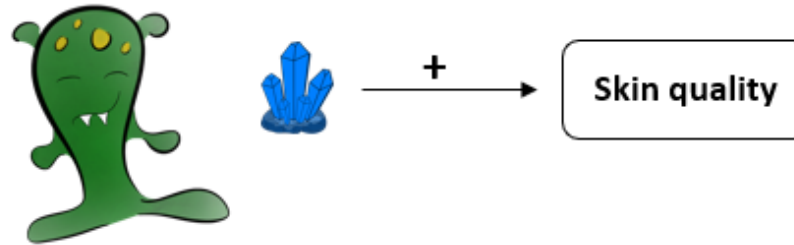
### 3.2.1.3 blue\_diverse\_red\_skin

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*Please read the following scenario:*

A remote planet of our galaxy, called Morgania, is inhabited by tiny Aliens, called Morganians. The regular diet of Morganians consists of plants of different types. From time to time, however, Morganians also seek and swallow blue crystals because these crystals can lead to a positive effect.

Blue crystals possess the capacity to produce a *single* positive effect. Blue crystals can lead to improved *skin quality*.



We now would like to get to know your intuition about the causal strength with which eating blue crystals causes improved skin quality. To express your intuition about the causal strength, please answer the following question:

**What do you think is the probability with which eating blue crystals leads to improved skin quality?**

*Please use the following rating scale to provide your estimation.*

- It never leads to improved skin quality
- 
- 
- 
-

- 50:50
  - 
  - 
  - 
  - 
  - It always leads to improved skin quality
- 

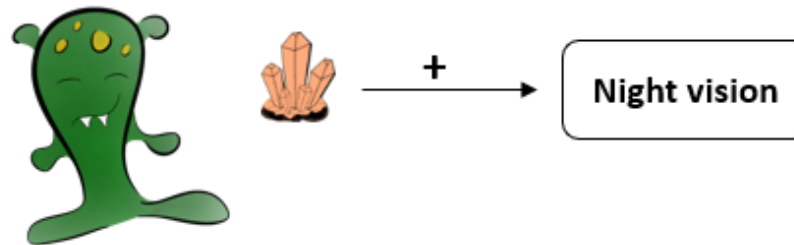
#### **3.2.1.4 red\_diverse\_blue\_vision**

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*Please read the following scenario:*

A remote planet of our galaxy, called Morgania, is inhabited by tiny Aliens, called Morganians. The regular diet of Morganians consists of plants of different types. From time to time, however, Morganians also seek and swallow red crystals because these crystals can lead to a positive effect.

Red crystals possess the capacity to produce a *single* positive effect. Red crystals can lead to improved *night vision*.



We now would like to get to know your intuition about the causal strength with which eating red crystals causes improved night vision. To express your intuition about the causal strength, please answer the following question:

**What do you think is the probability with which eating red crystals leads to improved night vision?**

*Please use the following rating scale to provide your estimation.*

- It never leads to improved night vision
- 
- 
- 
-

- 50:50
  - 
  - 
  - 
  - 
  - It always leads to improved night vision
- 

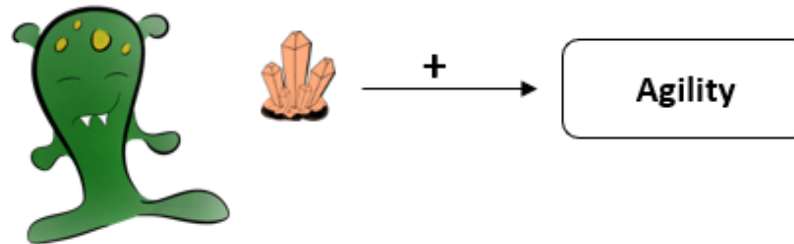
### 3.2.1.5 red\_diverse\_blue\_agility

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*Please read the following scenario:*

A remote planet of our galaxy, called Morgania, is inhabited by tiny Aliens, called Morganians. The regular diet of Morganians consists of plants of different types. From time to time, however, Morganians also seek and swallow red crystals because these crystals can lead to a positive effect.

Red crystals possess the capacity to produce a *single* positive effect. Red crystals can lead to improved *agility*.



We now would like to get to know your intuition about the causal strength with which eating red crystals causes improved agility. To express your intuition about the causal strength, please answer the following question:

**What do you think is the probability with which eating red crystals leads to improved agility?**

*Please use the following rating scale to provide your estimation.*

- It never leads to improved agility
- 
- 
- 
-

- 50:50
  - 
  - 
  - 
  - 
  - It always leads to improved agility
- 

### 3.2.1.6 red\_diverse\_blue\_skin

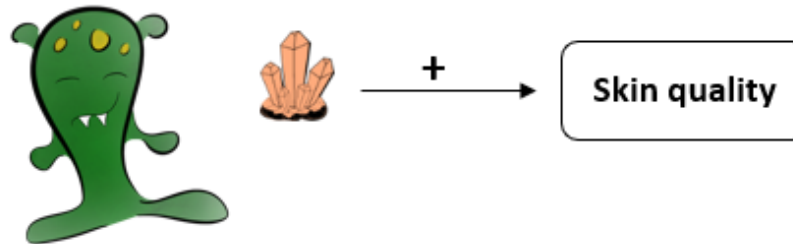
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*Please read the following scenario:*

A remote planet of our galaxy, called Morgania, is inhabited by tiny Aliens, called Morganians. The regular diet of Morganians consists of plants of different types. From time to time, however, Morganians also seek and swallow red crystals because these crystals can lead to a positive effect.

Red crystals possess the capacity to produce a *single* positive effect. Red crystals can lead to improved *skin quality*.





We now would like to get to know your intuition about the causal strength with which eating red crystals causes improved skin quality. To express your intuition about the causal strength, please answer the following question:

**What do you think is the probability with which eating red crystals leads to improved skin quality?**

*Please use the following rating scale to provide your estimation.*

- It never leads to improved skin quality
- 
- 
- 
-

- 50:50
- 
- 
- 
- 
- It always leads to improved skin quality

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#### 4 Demographie

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Thank you very much for your effort, you are almost done with the survey. Please provide the following additional information:

**Please indicate with which gender you identify.**

- male
- female
- other
- prefer not to say

**How old are you?**

**In the text field below you can report any errors that you came across during the study (e.g., technical issues, layout problems, spelling errors, errors in program logic and flow, etc.).**

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#### 5 Endseite

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Thank you for taking part in this study!

The aim of this experiment is to find out more about how people reason about causality. If you are interested in further details or if you have any questions or comments concerning the experiment, feel free to contact me (Simon Stephan) under [sstepha1@uni-goettingen.de](mailto:sstepha1@uni-goettingen.de)

**To ensure you receive your reward**, please click on the following link to return to the Prolific website:

[Link to Prolific](#)

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