

## Captcha

**Are you a bot?**

Liam says to Emma: "It's a beautiful day, isn't it?"

Who is Liam talking to? (case sensitive)

**Are you a bot?**

Mia says to Benjamin: "It's a beautiful day, isn't it?"

Who is Mia talking to? (case sensitive)

**Are you a bot?**

William says to Ava: "It's a beautiful day, isn't it?"

Who is William talking to? (case sensitive)

**Are you a bot?**

Amelia says to Noah: "It's a beautiful day, isn't it?"

Who is Amelia talking to? (case sensitive)

**Are you a bot?**

Evelyn says to James: "It's a beautiful day, isn't it?"

Who is Evelyn talking to? (case sensitive)

**Intro\_Consent****CONSENT FORM**

**DESCRIPTION:** You are invited to participate in a research study in cognitive psychology. You will be asked to perform various tasks on a computer which may include: looking at images or videos, listening to sounds, reading scenarios, or playing games. You may be asked a number of different questions such as giving descriptions of what happened, making causal judgments, and interpreting people's actions. All information collected will remain confidential.

**RISKS AND BENEFITS:** Risks involved in this study are the same as those normally associated with using a computer (e.g., mild eye/arm strain). If you have any pre-existing conditions that might make reading and completing a computer-based survey strenuous for you, you should probably elect to not participate in this study. If at any time during the study you feel unable to participate because you are experiencing strain, you may end your participation without penalty. We cannot and do not guarantee or promise that you will receive any benefits from this study. Your decision whether or not to participate in this study will not affect your employment/medical care/grades in school.

**TIME INVOLVEMENT:** Your participation in this experiment will take ca. 8 minutes.

**PAYMENTS:** If recruitment materials indicate payment (e.g., Amazon or other recruitment), you will receive compensation as indicated.

**SUBJECT'S RIGHTS:** If you have read this notice and have decided to participate in this project, please understand your participation is voluntary and you have the right to withdraw your consent or discontinue participation at any time without penalty or loss of benefits to which you are otherwise entitled. You have the right to refuse to answer particular questions. Your individual privacy will be maintained in all published and written data resulting from the study.

**CONTACT INFORMATION:** Questions, Concerns, or Complaints: If you have any questions, concerns or complaints about this research study, its procedures, risks and benefits, you should ask the Protocol Director, (Professor Tobias Gerstenberg, Phone: (650) 725-2431; Email: gerstenberg@stanford.edu).

**INDEPENDENT CONTACT:** If you are not satisfied with how this study is being conducted, or if you have any concerns, complaints, or general questions about the research or your rights as a participant, please contact the Stanford Institutional Review Board (IRB) to speak to someone independent of the research team via email at [irb2-manager@lists.stanford.edu](mailto:irb2-manager@lists.stanford.edu), or via phone at (650) 723-2480 or toll free at 1-866-680-2906. You can also write to the Stanford IRB, Stanford University, 3000 El Camino Real, Five Palo Alto Square, 4th Floor, Palo Alto, CA 94306.

You may want to print a copy of this consent form to keep. By clicking the button below, you acknowledge that you have read the above information, that you are 18 years of age, or older and give your consent to participate in our internet-based study and consent for us to analyze the resulting data.

Thank you for your participation in this experiment!

In this experiment, you will see a video clip showing what happened in an office of a company. You will then be asked a couple of questions about the clip.

Before you start watching the video clip, **it is important that you understand the background of what happened in the office.** On the next page, you will receive some information about the set up of the office. Please read them carefully.

If you are ready, click on the button below to continue.

## Introduction\_Billyabnormal

In this experiment, you will see video clips about Suzy and Billy who both work on a project for our nation's security. Suzy and Billy always work together in one office, however, depending on the availability of the offices, they sometimes work in an office which has two doors, the "Two-Door-Office", and sometimes in an office with one door, the "One-Door-Office". What both these offices have in common is that there is a motion detector installed (see Figure 1).

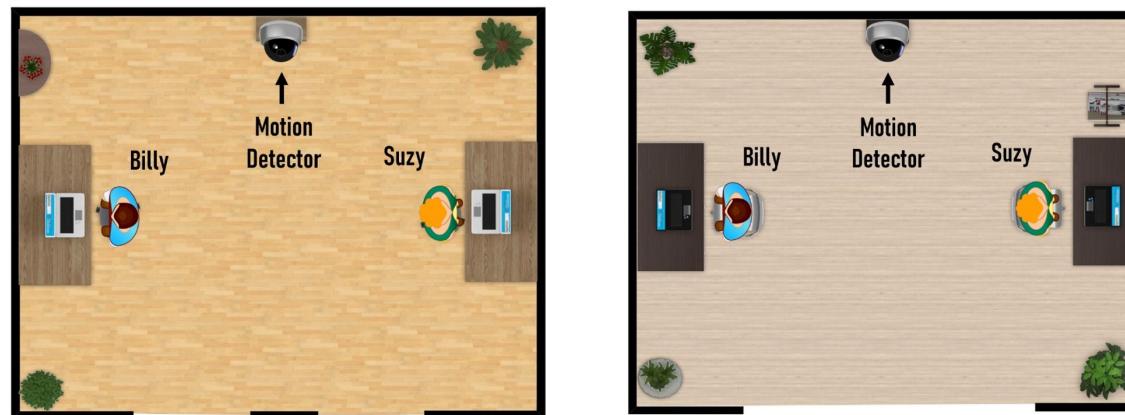


Figure 1. Suzy and Billy in the "Two-Door-Office" (left) and in the "One-Door-Office" (right).

Depending on the availability of the offices, Suzy and Billy either work in the "Two-Door-

"Office" or in the "One-Door-Office" for one week.

In the "Two-Door-Office", the motion detector goes off if *more than one person* arrives in the office at the same time.

### Two-Door-Office

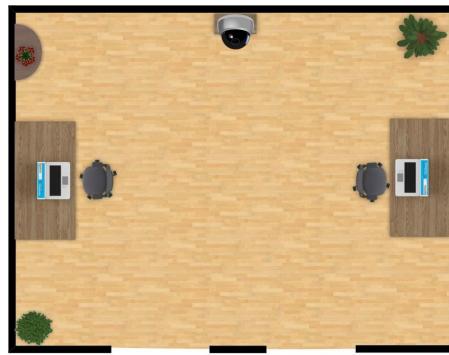


Figure 2. No one enters the office and motion detector does not go off.



Figure 3. Billy and Suzy enter the office at the same time and the motion detector goes off.



Figure 4. Billy enters the office and the motion detector does not go off.

For example, in Figure 2 no one enters the office, and the motion detector does not go off.

In Figure 3, both Suzy and Billy enter the office at the same time, and the motion detector goes off.

In Figure 4, only Billy enters the office and the motion detector does not go off.

In the "One-Door-Office", the motion detector goes off as soon as *one person* arrives in the office.

## One-Door-Office



Figure 5. No one enters the office and the motion detector does not go off.

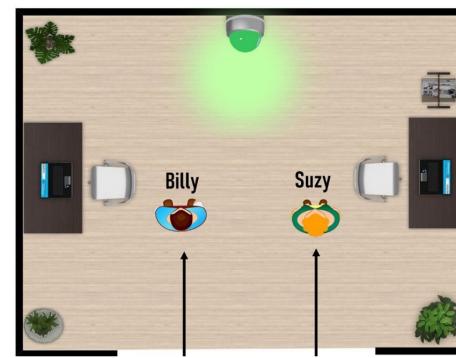


Figure 6. Billy and Suzy enter the office at the same time and the motion detector goes off.

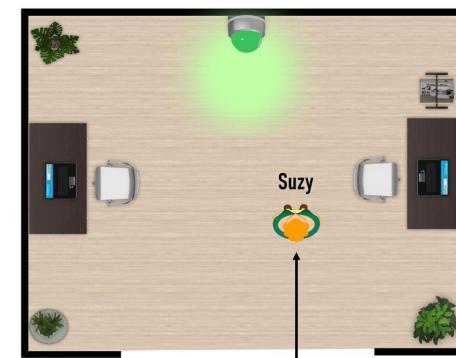


Figure 7. Suzy enters the office and the motion detector goes off.

For example, in Figure 5 no one enters the office, and the motion detector does not go off.

In Figure 6, both Suzy and Billy enter the office at the same time, and the motion detector goes off.

In Figure 7, only Suzy enters the office and the motion detector goes off.

Figure 8 summarizes again what happens when only one person enters the room of the "Two-Door-Office" (left) and the "Right-Door-Office" (right).



Figure 8. The motion detector does *not* go off when someone enters the "Two-Door-Office" (left), but does go off when someone enters the "One-Door-Office" (right).

In the "Two-Door-Office", if only one person enters the office the motion detector does *not* go off. In contrast, in the "One-Door-Office", if only one person enters the office the motion detector does go off.

Given the confidentiality of the project, it is sometimes required that one employee works alone in the office. As a result, the company's boss sometimes instructs Suzy to come into the office on the next morning, while Billy is supposed to stay out of the office on that morning. The instructions of the boss are always the same, independent of the office that Suzy and Billy are currently working in.

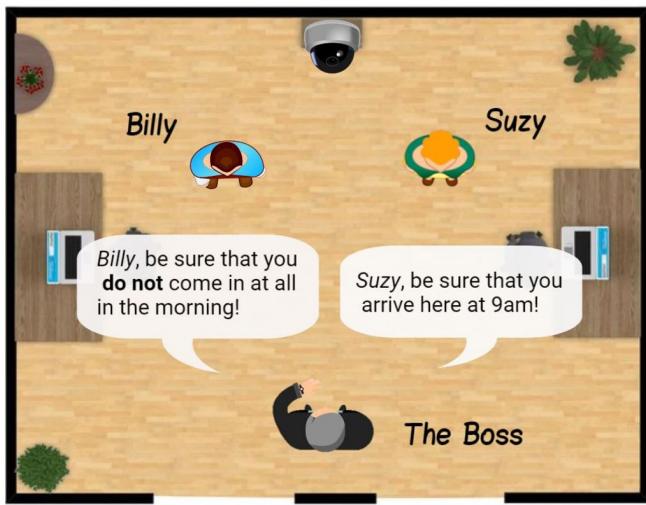


Figure 9. The boss of the company gives the instructions for the next day in the "Two-Door-Office".



Figure 10. The boss of the company gives the instructions for the next day in the "One-Door-Office".

For example, in Figure 9 the boss tells Billy and Suzy who are currently working in the "Two-Door-Office" that Suzy is supposed to come into the office at 9am the next morning, while Billy is not supposed to come into the office the next morning.

In Figure 10, the boss tells Billy and Suzy who are currently working in the "One-Door-Office" that Suzy is supposed to come into the office at 9am the next morning, while Billy is not supposed to come into the office the next morning.

**On the next page, you will be asked a few comprehension check questions.**

## Introcheck

Please answer the following questions:



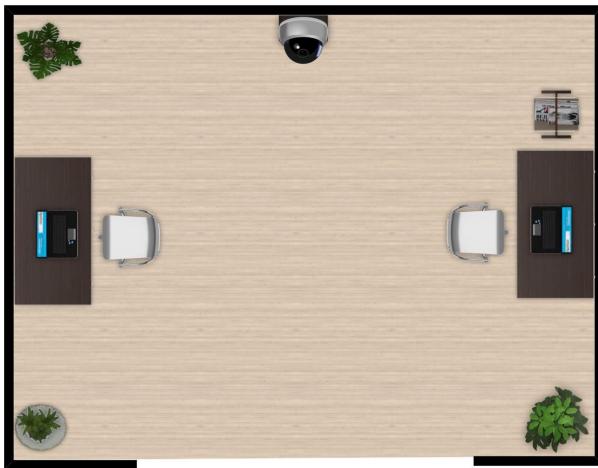
In the "Two-Door-Office", if *two employees* enter the office at the same time, the motion detector will go off.

- true
- false



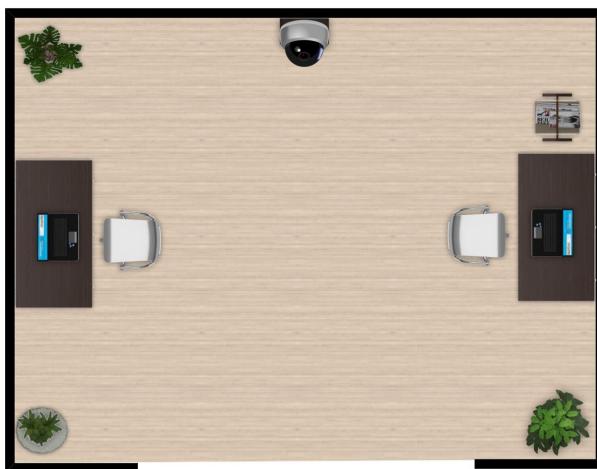
In the "Two-Door-Office", if *only one employee* enters the office, the motion detector will go off.

- true
- false



In the "One-Door-Office", if *two employees* enter the office at the same time, the motion detector will go off.

- true
- false



In the "One-Door-Office", if *only one employee* enters the office, the motion detector will go off.

- true
- false

What kind of instruction does the company's boss sometimes give to the two employees?

- Billy must arrive at 9am in the office while Suzy must not enter the office in the morning.
- Suzy must arrive at 9am in the office while Billy must not enter the office in the morning.

Which statement about the instructions given by the boss is true?

- The instructions of the boss only hold when Suzy and Billy are working in the "Two-Door-Office.
- The instructions of the boss hold independently of whether Suzy and Billy are working in the "One-Door-Office" or "Two-Door-Office".

## **Test\_Questions\_Correct**

Great, you answered all questions correctly. You can now begin with the experiment!

You will now watch two videos about Billy and Suzy working in the company. The first part of each video will always stop at the beginning of the clip and you will be asked some questions about the scenario. In the second part of each video you will see the rest of the clip and will be asked some more questions.

The loading for the videos make take some time, so please wait until the videos appears and starts to play. You will be able to proceed to the next page via the "next" button when the video has finished and you have answered all questions.

Now click on the button below to continue.

## **Billyabnormal\_ConjunctiveFirst**

Video of what happened at the "Two-Door-Office" the day before

The day  
before...



**How much do you agree with the following statements?**

"Billy is allowed to come into the office at 9am the next morning".

Not at all

Very much

"Suzy is allowed to come into the office at 9am the next morning".

Not at all

Very much

"If only one of the two employees enters the office, the motion detector will go off."

Not at all

Very much

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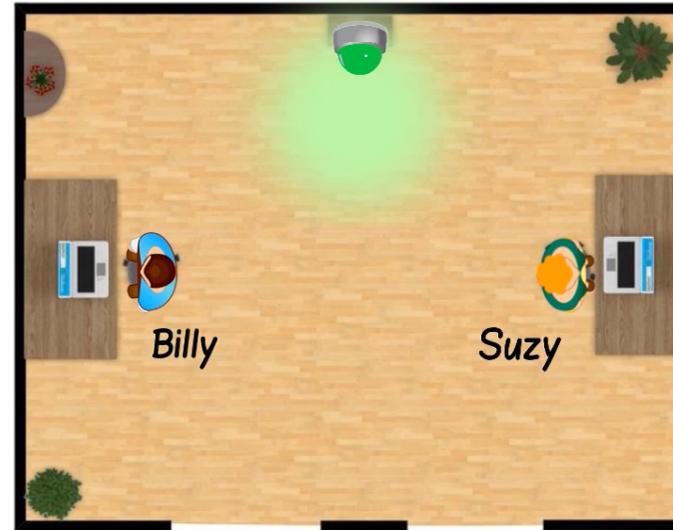
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Video of what happens at the "Two-Door-Office" on the day

The next day,  
9 am.

Billy, be sure that you  
do not come in at all  
in the morning!

Suzy, be sure that you  
arrive here at 9am!



Which of the following statements better describes what has happened in this situation?

- The motion detector went off because **Billy** entered the office.
- The motion detector went off because **Suzy** entered the office.

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One week later.....

Video of what happened at the "One-Door-Office" the day before

The day before...



**How much do you agree with the following statements?**

"Billy is allowed to come into the office at 9am the next morning".

Not at all

Very much

"Suzy is allowed to come into the office at 9am the next morning".

Not at all

Very much

"If only one of the two employees enters the office, the motion detector will go off."

Not at all

Very much

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Video of what happens at the "One-Door-Office" on the day

The next day,  
9 am.

Billy, be sure that you  
do not come in at all  
in the morning!

Suzy, be sure that you  
arrive here at 9am!



Which of the following statements better describes what has happened in this situation?

- The motion detector went off because **Billy** entered the office.
- The motion detector went off because **Suzy** entered the office.

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## Billyabnormal\_DisjunctiveFirst

Video of what happened at the "One-Door-Office" the day before

The day  
before...



**How much do you agree with the following statements?**

"Billy is allowed to come into the office at 9am the next morning".

Not at all

Very much

"Suzy is allowed to come into the office at 9am the next morning".

Not at all

Very much

"If only one of the two employees enters the office, the motion detector will go off."

Not at all

Very much

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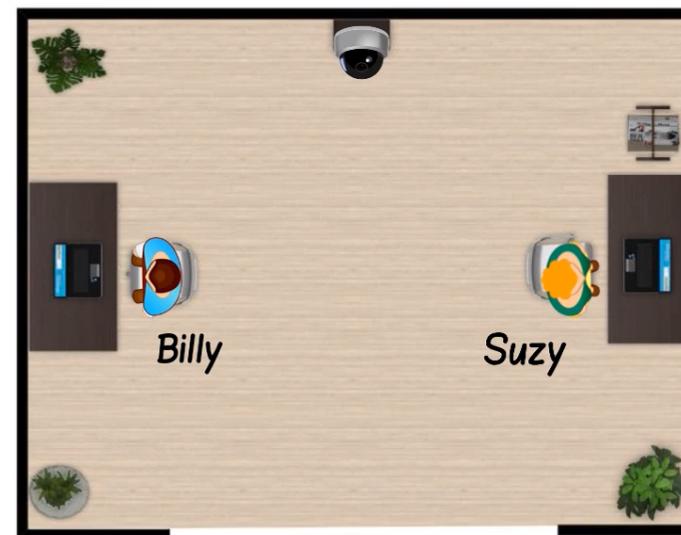
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Video of what happens at the "One-Door-Office" on the day

The next day,  
9 am.

Billy, be sure that you  
**do not** come in at all  
in the morning!

Suzy, be sure that you  
arrive here at 9am!



Which of the following statements better describes what has happened in this situation?

- The motion detector went off because **Billy** entered the office.

- The motion detector went off because **Suzy** entered the office.

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One week later.....

Video of what happened at the "Two-Door-Office" the day before

The day  
before...



### How much do you agree with the following statements?

"Billy is allowed to come into the office at 9am the next morning".

Not at all

Very much

"Suzy is allowed to come into the office at 9am the next morning".

Not at all

Very much

"If only one of the two employees enters the office, the motion detector will go off."

Not at all

Very much

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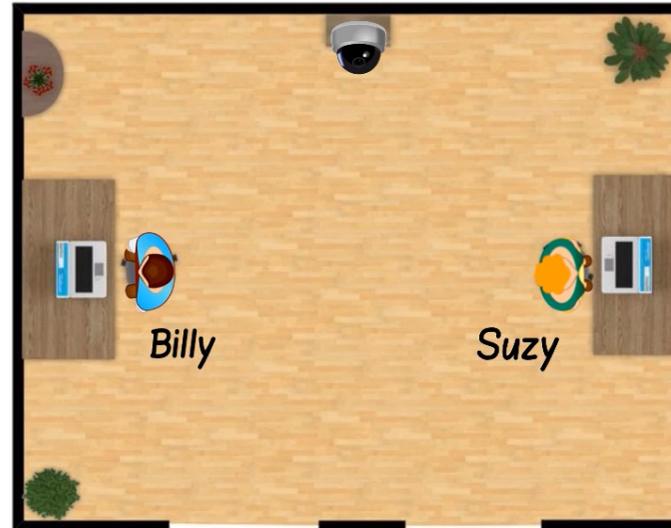
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Video of what happens at the "Two-Door-Office" on the day

The next day,  
9 am.

Billy, be sure that you  
do not come in at all  
in the morning!

Suzy, be sure that you  
arrive here at 9am!



Which of the following statements better describes what has happened in this situation?

- The motion detector went off because **Billy** entered the office.
- The motion detector went off because **Suzy** entered the office.

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## Interim Message

### Well done so far!

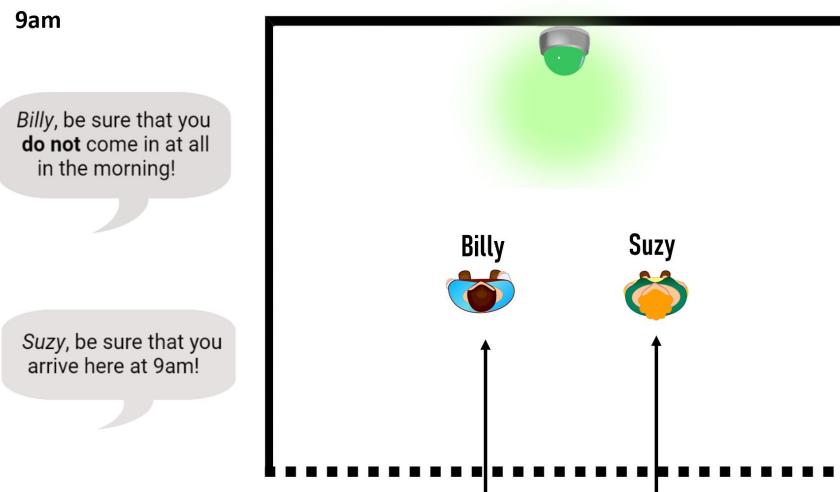
You will now get to see one more diagram of the office. However, in this diagram, some information about what happened is missing.

Your task is to figure out the missing information based on a statement that someone made who actually saw what happened.

Please click on the 'next' button if you are ready.

## Final\_Billyselected\_ConjunctiveLeft

The following picture shows the scene of a morning on which both Billy and Suzy arrived at their office at 9am and the motion detector went off. However, the scene does not show which office Billy and Suzy entered that morning, i.e. the "Two-Door-Office" whose motion detector goes off if *more than one person* enters the office at the same time, or "One-Door-Office" whose motion goes off as soon as *one person* enters.



Imagine that Ben  also participated in the same experiment that you are doing right now. He saw a video clip of a morning in the office and had to choose an explanation for what has happened in this video. As part of the experiment, Ben saw how Suzy and Billy entered the office at the same time and the motion detector went off (like in the picture above). He also saw which office they entered, i.e. the "Two-Door-Office" or the "One-Door-Office". He was then given two statements to choose from to best describe what has happened in this situation. For the scenario above, Ben chose the following statement:

Which of the following statements better describes what has happened in this situation?

- The motion detector went off because **Billy** entered the office.
- The motion detector went off because **Suzy** entered the office.

Given Ben's decision, which of these two scenes did he see?



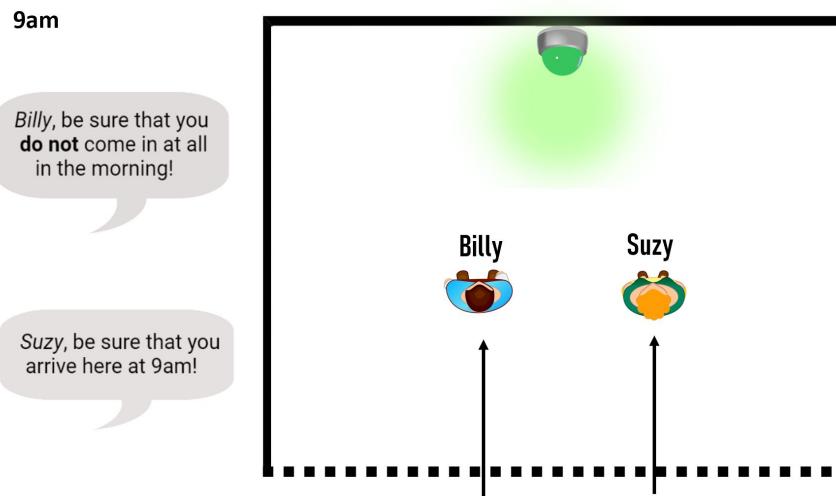
Definitely this one

Unsure

Definitely this one

### Final\_Billyselected\_ConjunctiveRight

The following picture shows the scene of a morning on which both Billy and Suzy arrived at their office at 9am and the motion detector went off. However, the scene does not show which office Billy and Suzy entered that morning, i.e. the "Two-Door-Office" whose motion detector goes off if *more than one person* enters the office at the same time, or "One-Door-Office" whose motion goes off as soon as *one person* enters.



Imagine that Ben  also participated in the same experiment that you are doing right now. He saw a video clip of a morning in the office and had to choose an explanation for what has happened in this video. As part of the experiment, Ben saw how Suzy and Billy entered the office at the same time and the motion detector went off (like in the picture above). He also saw which office they entered, i.e. the "Two-Door-Office" or the "One-Door-Office". He was then given two statements to choose from to best describe what has happened in this situation. For the scenario above, Ben chose the following statement:

Which of the following statements better describes what has happened in this situation?

- The motion detector went off because **Billy** entered the office.
- The motion detector went off because **Suzy** entered the office.

Given Ben's decision, which of these two scenes did he see?



Definitely this one



Unsure

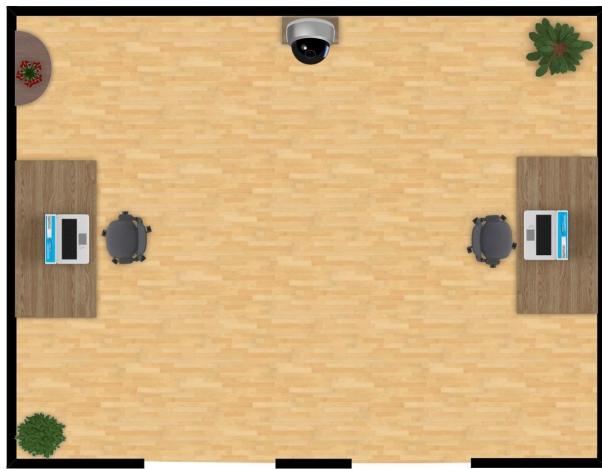
Definitely this one

## Test\_Questions\_Incorrect

One or more of your responses were incorrect. Please re-read the instructions and try again!

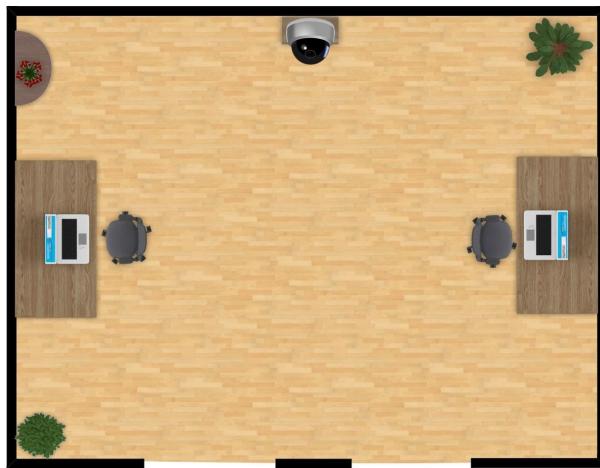
## Introcheck\_2

Please answer the following questions:



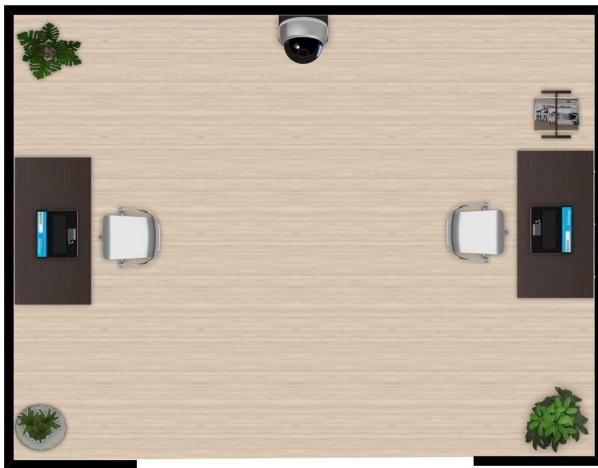
In the "Two-Door-Office", if *two employees* enter the office at the same time, the motion detector will go off.

- true
- false



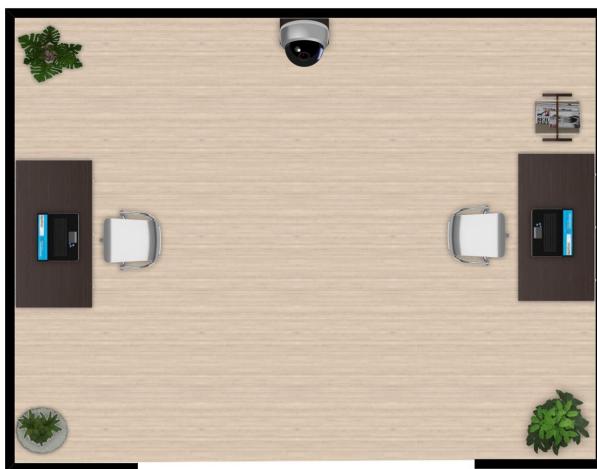
In the "Two-Door-Office", if *only one employee* enters the office, the motion detector will go off.

- true
- false



In the "One-Door-Office", if *two employees* enter the office at the same time, the motion detector will go off.

- true
- false



In the "One-Door-Office", if *only one employee* enters the office, the motion detector will go off.

- true
- false

What kind of instruction does the company's boss sometimes give to the two employees?

- Billy must arrive at 9am in the office while Suzy must not enter the office in the morning.
- Suzy must arrive at 9am in the office while Billy must not enter the office in the morning.

Which statement about the instructions given by the boss is true?

- The instructions of the boss only hold when Suzy and Billy are working in the "Two-Door-Office".
- The instructions of the boss hold independently of whether Suzy and Billy are working in the "Two-Door-Office" or the "One-Door-Office".

## **Test\_incorrect\_2**

You have answered one or more questions wrong for the second time. The survey ends here, thank you very much for your participation.

## **Introduction\_Suzyabnormal**

In this experiment, you will see video clips about Suzy and Billy who both work on a project for our nation's security. Suzy and Billy always work together in one office, however, depending on the availability of the offices, they sometimes work in an office which has two doors, the "Two-Door-Office", and sometimes in an office with one door, the "One-Door-Office". What both these offices have in common is that there is a motion detector installed (see Figure 1).

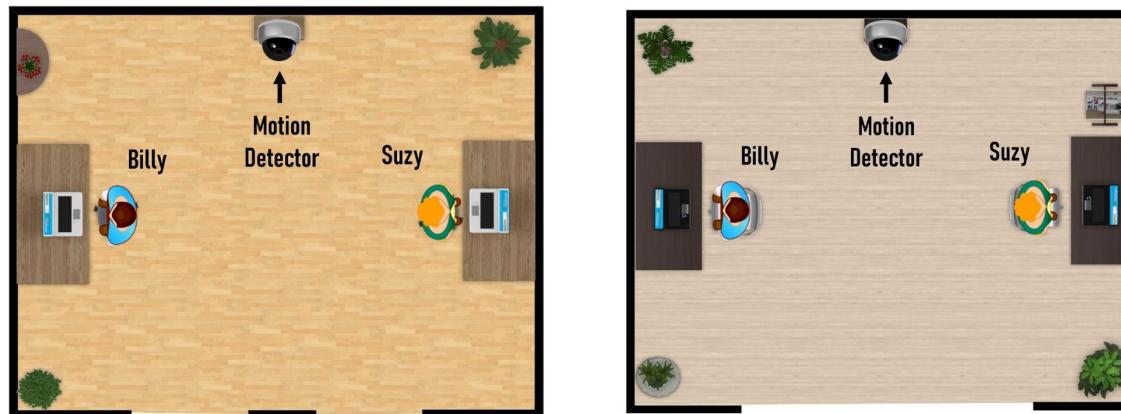


Figure 1. Suzy and Billy in the "Two-Door-Office" (left) and in the "One-Door-Office" (right).

Depending on the availability of the offices, Suzy and Billy either work in the "Two-Door-Office" or in the "One-Door-Office" for one week.

In the "Two-Door-Office", the motion detector goes off if *more than one person* arrives in the office at the same time.

## Two-Door-Office

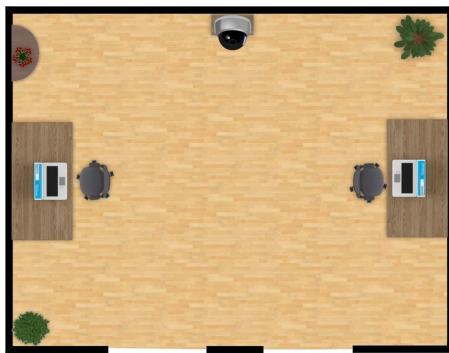


Figure 2. No one enters the office and motion detector does not go off.



Figure 3. Billy and Suzy enter the office at the same time, and the motion detector goes off.



Figure 4. Billy enters the office and the motion detector does not go off.

For example, in Figure 2 no one enters the office, and the motion detector does not go off.

In Figure 3, both Suzy and Billy enter the office at the same time, and the motion detector goes off.

In Figure 4, only Billy enters the office and the motion detector does not go off.

In the "One-Door-Office", the motion detector goes off *as soon as one person arrives in the office*.

## One-Door-Office



Figure 5. No one enters the office and the motion detector does not go off.

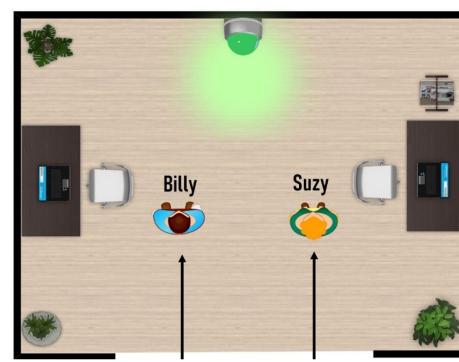


Figure 6. Billy and Suzy enter the office at the same time and the motion detector goes off.

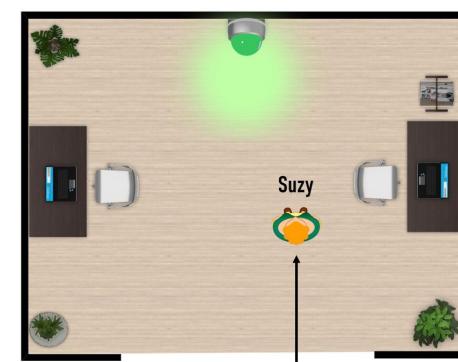


Figure 7. Suzy enters the office and the motion detector goes off.

For example, in Figure 5 no one enters the office, and the motion detector does not go off.

In Figure 6, both Suzy and Billy enter the office at the same time, and the motion detector goes off.

In Figure 7, only Suzy enters the office and the motion detector goes off.

Figure 8 summarizes again what happens when only one person enters the room of the "Two-Door-Office" (left) and the "Right-Door-Office" (right).



Figure 8. The motion detector does *not* go off when someone enters the "Two-Door-Office" (left), but does go off when someone enters the "One-Door-Office" (right).

In the "Two-Door-Office", if only one person enters the office the motion detector does *not* go off. In contrast, in the "One-Door-Office", if only one person enters the office the motion detector does go off.

Given the confidentiality of the project, it is sometimes required that one employee works alone in the office. As a result, the company's boss sometimes instructs Billy to come into the office on the next morning, while Suzy is supposed to stay out of the office on that morning. The instructions of the boss are always the same, independent of the office that Suzy and Billy are currently working in.



Figure 9. The boss of the company gives the instructions for the next day in the "Two-Door-Office".



Figure 10. The boss of the company gives the instructions for the next day in the "One-Door-Office".

For example, in Figure 9 the boss tells Billy and Suzy who are currently working in the "Two-Door-Office" that Billy is supposed to come into the office at 9am the next morning, while Suzy is not supposed to come into the office the next morning.

In Figure 10, the boss tells Billy and Suzy who are currently working in the "One-Door-Office" that Billy is supposed to come into the office at 9am the next morning, while Suzy is not supposed to come into the office the next morning.

**On the next page, you will be asked a few comprehension check questions.**

**Suzyabnormal\_DisjunctiveFirst**

Video of what happened at the "One-Door-Office" the day before



**How much do you agree with the following statements?**

"Billy is allowed to come into the office at 9am the next morning".

Not at all

Very much

Not at all

Very much

"Suzy is allowed to come into the office at 9am the next morning".

Not at all

Very much

"If only one of the two employees enters the office, the motion detector will go off."

Not at all

Very much

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Video of what happens at the "One-Door-Office" on the day

Which of the following statements better describes what has happened in this situation?

- The motion detector went off because **Billy** entered the office.
- The motion detector went off because **Suzy** entered the office.

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One week later....

Video of what happened at the "Two-Door-Office" the day before



**How much do you agree with the following statements?**

"Billy is allowed to come into the office at 9am the next morning".

Not at all

Very much

"Suzy is allowed to come into the office at 9am the next morning".

Not at all

Very much

"If only one of the two employees enters the office, the motion detector will go off."

Not at all

Very much

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Video of what happens at the "Two-Door-Office" on the day

Which of the following statements better describes what has happened in this situation?

- The motion detector went off because **Billy** entered the office.
- The motion detector went off because **Suzy** entered the office.

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## Suzyabnormal\_ConjunctiveFirst

Video of what happened at the "Two-Door-Office" the day before



**How much do you agree with the following statements?**

"Billy is allowed to come into the office at 9am the next morning".

Not at all

Very much

"Suzy is allowed to come into the office at 9am the next morning".

Not at all

Very much

"If only one of the two employees enters the office, the motion detector will go off."

Not at all

Very much

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Video of what happens at the "Two-Door-Office" on the day

Which of the following statements better describes what has happened in this situation?

- The motion detector went off because **Billy** entered the office.

- The motion detector went off because **Suzy** entered the office.

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One week later.....

Video of what happened at the "One-Door-Office" the day before



**How much do you agree with the following statements?**

"Billy is allowed to come into the office at 9am the next morning".

Not at all

Very much

"Suzy is allowed to come into the office at 9am the next morning".

Not at all

Very much

"If only one of the two employees enters the office, the motion detector will go off."

Not at all

Very much

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Video of what happens at the "One-Door-Office" on the day

Which of the following statements better describes what has happened in this situation?

- The motion detector went off because **Billy** entered the office.
- The motion detector went off because **Suzy** entered the office.

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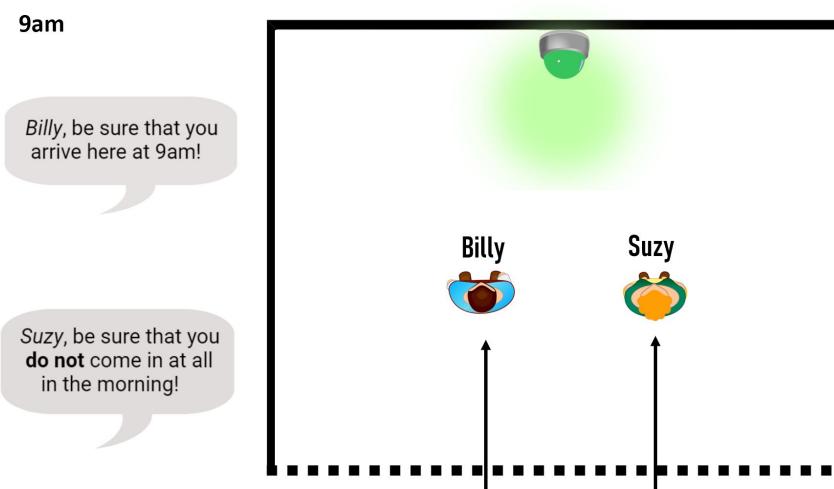
Last Click: 0 seconds

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## Final\_Suzyselected\_ConjunctiveLeft

The following picture shows the scene of a morning on which both Billy and Suzy arrived at their office at 9am and the motion detector went off. However, the scene does not show which office Billy and Suzy entered that morning, i.e. the "Two-Door-Office" whose motion detector goes off if *more than one person* enters the office at the same time, or "One-Door-Office" whose motion goes off as soon as *one person* enters.



Imagine that Ben 🧑 also participated in the same experiment that you are doing right now. He saw a video clip of a morning in the office and had to choose an explanation for what has happened in this

video. As part of the experiment, Ben saw how Suzy and Billy entered the office at the same time and the motion detector went off (like in the picture above). He also saw which office they entered, i.e. the "Two-Door-Office" or the "One-Door-Office". He was then given two statements to choose from to best describe what has happened in this situation. For the scenario above, Ben chose the following statement:

Which of the following statements better describes what has happened in this situation?

- The motion detector went off because **Billy** entered the office.
- The motion detector went off because **Suzy** entered the office.

Given Ben's decision, which of these two scenes did he see?



Definitely this one

Unsure

Definitely this one

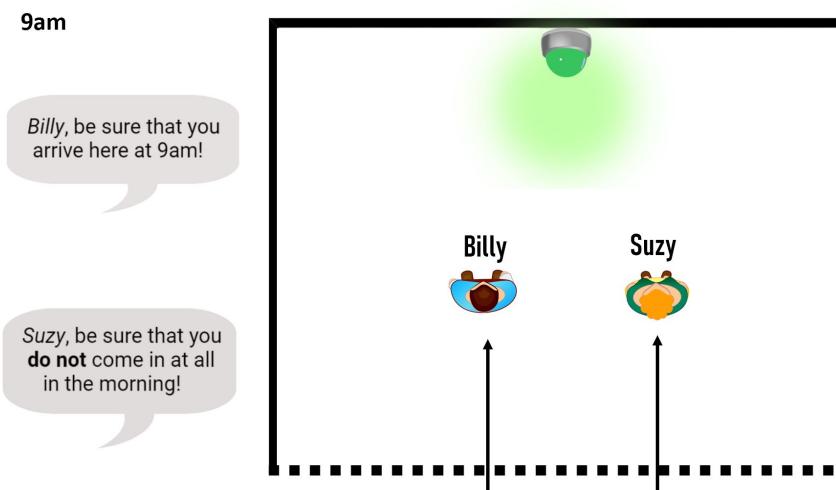
Definitely this one

Unsure

Definitely this one

## Final\_Suzyselected\_ConjunctiveRight

The following picture shows the scene of a morning on which both Billy and Suzy arrived at their office at 9am and the motion detector went off. However, the scene does not show which office Billy and Suzy entered that morning, i.e. the "Two-Door-Office" whose motion detector goes off if *more than one person* enters the office at the same time, or "One-Door-Office" whose motion goes off as soon as *one person* enters.



Imagine that Ben 🧑 also participated in the same experiment that you are doing right now. He saw a video clip of a morning in the office and had to choose an explanation for what has happened in this video. As part of the experiment, Ben saw how Suzy and Billy entered the office at the same time and the motion detector went off (like in the picture above). He also saw which office they entered, i.e. the "Two-Door-Office" or the "One-Door-Office". He was then given two statements to choose from to best describe what has happened in this situation. For the scenario above, Ben chose the following statement:

Which of the following statements better describes what has happened in this situation?

- The motion detector went off because **Billy** entered the office.
- The motion detector went off because **Suzy** entered the office.

Given Ben's decision, which of these two scenes did he see?



Definitely this one  
Definitely this one

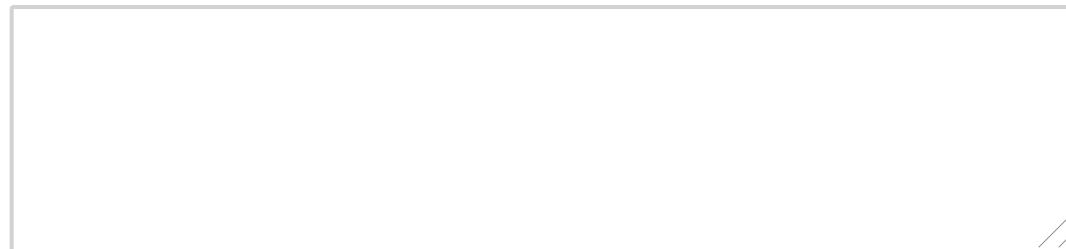
Unsure  
Unsure

Definitely this one  
Definitely this one

## Feedback, Demographics and Payment Code

Thank you for answering these questions.

What factors influenced your decision about which of the two scenes was more likely? Do you have any other comments about the experiment?



Please provide the following demographic information to complete the study.

1. My age is:

- My age in years is
- Prefer not to say.

## 2. Gender

- Female
- Male
- Non-binary
- Prefer not to say.

## 3. Race

- I am
- Prefer not to say.

## Ethnicity

- Hispanic
- Non-Hispanic
- Prefer not to say.

Thank you very much for participating in this experiment!

If you have any questions or comments, please contact Aaron Beller ([abeller@stanford.edu](mailto:abeller@stanford.edu)).

In order to receive credit for taking our survey, you will need to paste the following validation code into the box on MTurk:

HU7BTE

Press the button below to end the experiment.

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