

I'm not a bot



How reliable are lie detector tests

February of 1994, the FBI arrested Aldrich Ames, who had been a CIA employee for 31 years. Ames was arrested and charged with espionage. He was a Russian spy. For nine years, he had been passing secrets to the Russians in exchange for over \$1.3 million. His spying activities had compromised dozens of CIA and FBI operations. Worse yet, his treacherous crimes had led to the deaths of several CIA spies and the imprisonment of many more. During the time that Aldrich Ames was operating as a Russian spy, the CIA had twice given him a lie detector test. Despite having no special training in how to defeat a lie detector test, Aldrich passed both times. The modern polygraph tests, better known as the "lie detector test," is a fascinating little instrument with a long and controversial history. The earliest version a polygraph instrument was developed in 1921 when John Larson cobbled together previously developed measures of respiration, heart rate, and blood pressure that had individually shown promise as a measure of lying. Technological developments continued, and the modern polygraph is now an integrated, state-of-the-art, computerized system that continuously monitors blood pressure, heart rate, respiration, and perspiration. The theory behind the polygraph is that when people are lying, they experience a different emotional state than when they are telling the truth. Lying causes a person's autonomic nervous system to become more active, leading to an increase in heart rate, blood pressure, respiration, and perspiration. These changes are part of the fight-or-flight system that initiates whenever we are scared. You have probably felt your heart pounding or your palms sweating when faced with danger, be it a vicious dog, an angry boss, or an upcoming exam. The polygraph is designed to detect those subtle changes in a person's physiological responses when they lie. The general idea is that when a person is being honest, their physiological responses remain stable under questioning, whereas a guilty person's heart will race. One of the most common polygraph procedures is called the comparison question test (also called the control question test). The examinee is asked relatively benign questions such as "Where do you live." They are also asked questions that are not relevant to the crime, but which would likely trigger an emotional reaction such as, "Have you ever told a lie?" They are then asked questions about the alleged crime such as, "Did you steal the documents?" The premise of the comparison question test is that a guilty person will have a much stronger physiological reaction to the crime question, whereas an innocent person will not. The polygraph is used in criminal investigations, although it is generally not admissible as evidence in a trial. It is also used as a pre-employment and continuing employment screening tool for many federal employees who work in sensitive positions, such as CIA agents and FBI agents. Private businesses, however, cannot force their employees to submit to a polygraph test. So, does the polygraph actually work? Are the results accurate? It does work much of the time. Typically, the accuracy of the polygraph is between 85% and 90%. That is, in 85 out of 100 cases, the polygraph can accurately determine if someone is lying or telling the truth. That sounds pretty impressive, but it is important to keep in mind that the polygraph is failing 15% of the time. The federal government sought an unbiased evaluation of the polygraph, so they tasked the National Academy of Sciences with a full investigation of the polygraph's accuracy. In 2003, this large team of notable scientists came to the conclusion that the polygraph was far less accurate than the polygraph examiners had claimed. Some scientists have claimed that the accuracy may be closer to 75%. This lackluster performance is the reason why polygraphs are not used as evidence in criminal trials. They just cannot be trusted. For more clear evidence that the polygraph is unreliable, just look back to the Aldrich Ames case mentioned at the top of this article. Ames lied during his polygraph examinations at the CIA, and he passed each time. In this case, the lie detector test failed. When asked how he passed the polygraph test, Ames said that he followed the advice of his Russian handlers. They told him, "Just relax, don't worry, you have nothing to fear." The Russians knew that the polygraph was flawed. They knew that it was only accurate if the examinee was worried and anxious. They knew that if Ames could just relax, he would pass. Find a Career Counseling Therapist Get the help you need from a therapist near you - a FREE service from Psychology Today. Atlanta, GA Austin, TX Baltimore, MD Boston, MA Brooklyn, NY Charlotte, NC Chicago, IL Columbus, OH Dallas, TX Denver, CO Detroit, MI Houston, TX Indianapolis, IN Jacksonville, FL Las Vegas, NV Los Angeles, CA Louisville, KY Memphis, TN Miami, FL Milwaukee, WI Minneapolis, MN New York, NY Oakland, CA Omaha, NE Philadelphia, PA Phoenix, AZ Pittsburgh, PA Portland, OR Raleigh, NC Sacramento, CA Saint Louis, MO San Antonio, TX San Diego, CA San Francisco, CA San Jose, CA Seattle, WA Tucson, AZ Washington, DC Wichita, KS Work with a Mental Health Professional Editor: Harshita Jayatilaka Do you know how to tell if someone is lying? The polygraph is a device that measures several physiological indicators such as blood pressure, heart rate, respiration, and skin conductivity. The earliest version of the lie detector test was created in 1921 by John Larson, and as technology constantly grows, the new computerized model continues to monitor the same measures in the past. However, there has been some debate regarding whether or not lie detectors are reliable as there are no specific physiological reactions associated with lying. Polygraphs are constantly being used by law enforcement and it is mostly used to measure fear and nervousness based on main physiological indicators. Investigators created a technique that is still widely used today called the "Control Question Technique". The interrogator would mix control questions from non-threatening and random questions that aren't related to the case to relevant questions pertaining to the case. By using this technique, it would create some anxiety for the suspect because they would have to tell the truth with vague questions. Although, it has been shown that even innocent people can have greater levels of nervous activity due to the circumstances they are in especially if they got accused of a crime. According to the Psychological Set Theory, a person getting tested anticipates negative consequences if he/she lies, so their body produces a certain measure of physiological reactions that could signal deception. Another procedure investigators use is the "Guilty Knowledge Test" which is a multiple-choice test that has the information only the guilty person would know. However, this procedure is rarely used because the investigators have found that innocent people have been able to guess the correct answers to the questions. The polygraph is used in criminal investigations, although it is generally not admissible as evidence in a trial. It is also used as a pre-employment and continuing employment screening tool for many federal employees who work in sensitive positions, such as CIA agents and FBI agents. Private businesses, however, cannot force their employees to submit to a polygraph test. So, does the polygraph actually work? Are the results accurate? It does work much of the time. Typically, the accuracy of the polygraph is between 85% and 90%. That is, in 85 out of 100 cases, the polygraph can accurately determine if someone is lying or telling the truth. That sounds pretty impressive, but it is important to keep in mind that the polygraph is failing 15% of the time. The federal government sought an unbiased evaluation of the polygraph, so they tasked the National Academy of Sciences with a full investigation of the polygraph's accuracy. In 2003, this large team of notable scientists came to the conclusion that the polygraph was far less accurate than the polygraph examiners had claimed. Some scientists have claimed that the accuracy may be closer to 75%. This lackluster performance is the reason why polygraphs are not used as evidence in criminal trials. They just cannot be trusted. For more clear evidence that the polygraph is unreliable, just look back to the Aldrich Ames case mentioned at the top of this article. Ames lied during his polygraph examinations at the CIA, and he passed each time. In this case, the lie detector test failed. When asked how he passed the polygraph test, Ames said that he followed the advice of his Russian handlers. They told him, "Just relax, don't worry, you have nothing to fear." The Russians knew that the polygraph was flawed. They knew that it was only accurate if the examinee was worried and anxious. They knew that if Ames could just relax, he would pass. Find a Career Counseling Therapist Get the help you need from a therapist near you - a FREE service from Psychology Today. Atlanta, GA Austin, TX Baltimore, MD Boston, MA Brooklyn, NY Charlotte, NC Chicago, IL Columbus, OH Dallas, TX Denver, CO Detroit, MI Houston, TX Indianapolis, IN Jacksonville, FL Las Vegas, NV Los Angeles, CA Louisville, KY Memphis, TN Miami, FL Milwaukee, WI Minneapolis, MN New York, NY Oakland, CA Omaha, NE Philadelphia, PA Phoenix, AZ Pittsburgh, PA Portland, OR Raleigh, NC Sacramento, CA Saint Louis, MO San Antonio, TX San Diego, CA San Francisco, CA San Jose, CA Seattle, WA Tucson, AZ Washington, DC Wichita, KS Work with a Mental Health Professional Editor: Harshita Jayatilaka Do you know how to tell if someone is lying? The polygraph is a device that measures several physiological indicators such as blood pressure, heart rate, respiration, and skin conductivity. The earliest version of the lie detector test was created in 1921 by John Larson, and as technology constantly grows, the new computerized model continues to monitor the same measures in the past. However, there has been some debate regarding whether or not lie detectors are reliable as there are no specific physiological reactions associated with lying. Polygraphs are constantly being used by law enforcement and it is mostly used to measure fear and nervousness based on main physiological indicators. Investigators created a technique that is still widely used today called the "Control Question Technique". The interrogator would mix control questions from non-threatening and random questions that aren't related to the case to relevant questions pertaining to the case. By using this technique, it would create some anxiety for the suspect because they would have to tell the truth with vague questions. Although, it has been shown that even innocent people can have greater levels of nervous activity due to the circumstances they are in especially if they got accused of a crime. According to the Psychological Set Theory, a person getting tested anticipates negative consequences if he/she lies, so their body produces a certain measure of physiological reactions that could signal deception. Another procedure investigators use is the "Guilty Knowledge Test" which is a multiple-choice test that has the information only the guilty person would know. However, this procedure is rarely used because the investigators have found that innocent people have been able to guess the correct answers to the questions. The polygraph is used in criminal investigations, although it is generally not admissible as evidence in a trial. It is also used as a pre-employment and continuing employment screening tool for many federal employees who work in sensitive positions, such as CIA agents and FBI agents. Private businesses, however, cannot force their employees to submit to a polygraph test. So, does the polygraph actually work? Are the results accurate? It does work much of the time. Typically, the accuracy of the polygraph is between 85% and 90%. That is, in 85 out of 100 cases, the polygraph can accurately determine if someone is lying or telling the truth. That sounds pretty impressive, but it is important to keep in mind that the polygraph is failing 15% of the time. The federal government sought an unbiased evaluation of the polygraph, so they tasked the National Academy of Sciences with a full investigation of the polygraph's accuracy. In 2003, this large team of notable scientists came to the conclusion that the polygraph was far less accurate than the polygraph examiners had claimed. Some scientists have claimed that the accuracy may be closer to 75%. This lackluster performance is the reason why polygraphs are not used as evidence in criminal trials. They just cannot be trusted. For more clear evidence that the polygraph is unreliable, just look back to the Aldrich Ames case mentioned at the top of this article. Ames lied during his polygraph examinations at the CIA, and he passed each time. In this case, the lie detector test failed. When asked how he passed the polygraph test, Ames said that he followed the advice of his Russian handlers. They told him, "Just relax, don't worry, you have nothing to fear." The Russians knew that the polygraph was flawed. They knew that it was only accurate if the examinee was worried and anxious. They knew that if Ames could just relax, he would pass. Find a Career Counseling Therapist Get the help you need from a therapist near you - a FREE service from Psychology Today. Atlanta, GA Austin, TX Baltimore, MD Boston, MA Brooklyn, NY Charlotte, NC Chicago, IL Columbus, OH Dallas, TX Denver, CO Detroit, MI Houston, TX Indianapolis, IN Jacksonville, FL Las Vegas, NV Los Angeles, CA Louisville, KY Memphis, TN Miami, FL Milwaukee, WI Minneapolis, MN New York, NY Oakland, CA Omaha, NE Philadelphia, PA Phoenix, AZ Pittsburgh, PA Portland, OR Raleigh, NC Sacramento, CA Saint Louis, MO San Antonio, TX San Diego, CA San Francisco, CA San Jose, CA Seattle, WA Tucson, AZ Washington, DC Wichita, KS Work with a Mental Health Professional Editor: Harshita Jayatilaka Do you know how to tell if someone is lying? The polygraph is a device that measures several physiological indicators such as blood pressure, heart rate, respiration, and skin conductivity. The earliest version of the lie detector test was created in 1921 by John Larson, and as technology constantly grows, the new computerized model continues to monitor the same measures in the past. However, there has been some debate regarding whether or not lie detectors are reliable as there are no specific physiological reactions associated with lying. Polygraphs are constantly being used by law enforcement and it is mostly used to measure fear and nervousness based on main physiological indicators. Investigators created a technique that is still widely used today called the "Control Question Technique". The interrogator would mix control questions from non-threatening and random questions that aren't related to the case to relevant questions pertaining to the case. By using this technique, it would create some anxiety for the suspect because they would have to tell the truth with vague questions. Although, it has been shown that even innocent people can have greater levels of nervous activity due to the circumstances they are in especially if they got accused of a crime. According to the Psychological Set Theory, a person getting tested anticipates negative consequences if he/she lies, so their body produces a certain measure of physiological reactions that could signal deception. Another procedure investigators use is the "Guilty Knowledge Test" which is a multiple-choice test that has the information only the guilty person would know. However, this procedure is rarely used because the investigators have found that innocent people have been able to guess the correct answers to the questions. The polygraph is used in criminal investigations, although it is generally not admissible as evidence in a trial. It is also used as a pre-employment and continuing employment screening tool for many federal employees who work in sensitive positions, such as CIA agents and FBI agents. Private businesses, however, cannot force their employees to submit to a polygraph test. So, does the polygraph actually work? Are the results accurate? It does work much of the time. Typically, the accuracy of the polygraph is between 85% and 90%. That is, in 85 out of 100 cases, the polygraph can accurately determine if someone is lying or telling the truth. That sounds pretty impressive, but it is important to keep in mind that the polygraph is failing 15% of the time. The federal government sought an unbiased evaluation of the polygraph, so they tasked the National Academy of Sciences with a full investigation of the polygraph's accuracy. In 2003, this large team of notable scientists came to the conclusion that the polygraph was far less accurate than the polygraph examiners had claimed. Some scientists have claimed that the accuracy may be closer to 75%. This lackluster performance is the reason why polygraphs are not used as evidence in criminal trials. They just cannot be trusted. For more clear evidence that the polygraph is unreliable, just look back to the Aldrich Ames case mentioned at the top of this article. Ames lied during his polygraph examinations at the CIA, and he passed each time. In this case, the lie detector test failed. When asked how he passed the polygraph test, Ames said that he followed the advice of his Russian handlers. They told him, "Just relax, don't worry, you have nothing to fear." The Russians knew that the polygraph was flawed. They knew that it was only accurate if the examinee was worried and anxious. They knew that if Ames could just relax, he would pass. Find a Career Counseling Therapist Get the help you need from a therapist near you - a FREE service from Psychology Today. Atlanta, GA Austin, TX Baltimore, MD Boston, MA Brooklyn, NY Charlotte, NC Chicago, IL Columbus, OH Dallas, TX Denver, CO Detroit, MI Houston, TX Indianapolis, IN Jacksonville, FL Las Vegas, NV Los Angeles, CA Louisville, KY Memphis, TN Miami, FL Milwaukee, WI Minneapolis, MN New York, NY Oakland, CA Omaha, NE Philadelphia, PA Phoenix, AZ Pittsburgh, PA Portland, OR Raleigh, NC Sacramento, CA Saint Louis, MO San Antonio, TX San Diego, CA San Francisco, CA San Jose, CA Seattle, WA Tucson, AZ Washington, DC Wichita, KS Work with a Mental Health Professional Editor: Harshita Jayatilaka Do you know how to tell if someone is lying? The polygraph is a device that measures several physiological indicators such as blood pressure, heart rate, respiration, and skin conductivity. The earliest version of the lie detector test was created in 1921 by John Larson, and as technology constantly grows, the new computerized model continues to monitor the same measures in the past. However, there has been some debate regarding whether or not lie detectors are reliable as there are no specific physiological reactions associated with lying. Polygraphs are constantly being used by law enforcement and it is mostly used to measure fear and nervousness based on main physiological indicators. Investigators created a technique that is still widely used today called the "Control Question Technique". The interrogator would mix control questions from non-threatening and random questions that aren't related to the case to relevant questions pertaining to the case. By using this technique, it would create some anxiety for the suspect because they would have to tell the truth with vague questions. Although, it has been shown that even innocent people can have greater levels of nervous activity due to the circumstances they are in especially if they got accused of a crime. According to the Psychological Set Theory, a person getting tested anticipates negative consequences if he/she lies, so their body produces a certain measure of physiological reactions that could signal deception. Another procedure investigators use is the "Guilty Knowledge Test" which is a multiple-choice test that has the information only the guilty person would know. However, this procedure