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## The philosophy of time travel roberta sparrow

As we mentioned earlier, the concept of traveling into the past gets a little murky as the other causality gives birth to its head. Cause comes before effect, at least in this universe, that manages to muck up even the best time travel plans. For starters, if you traveled back in time 200 years, you would show up at a time before you were born. Think about it for a second. In the flow of time, the effect (you) would exist before the cause (your birth). To better understand what we are dealing with here, think of the famous grandfather. So you dive through the nearest wormhole and walk up to a spry 18-year-old version of your father's father. You raise your laser blast, but what happens when you pull the trigger? Think about it. You haven't been born yet. Neither does your father. If you kill your own grandfather in the past, he'll never have a son. That son will never have you, and you'll never take that job as a time-traveling assassin. You wouldn't exist to pull the trigger, which denied the whole line of events. We call this an inconsistent causal loop. On the other hand, we need to consider the idea of a consistent causal loop. While equally thought-provoking, this theoretical model of time travel is paradoxfree. According to physicist Paul Davies, such a loop can play out like this: A mathematics professor travels into the future and steals a groundbreaking mathematics theorem. After that, the professor gives theorem to a promising student. Then the promising student grows up to be the very person from whom the professor stole theorem in the first place. Then there's the post-selected model of time travel, which means distorted probability near any paradoxical situation [source: Sanders]. What does this mean? Well, get in the shoes of the time-traveling assassin again. This time travel model would make your grandfather almost dead proof. You can pull the trigger, but the laser will malfunction. Perhaps a bird will poop at just the right moment, but some quantum fluctuations will occur to prevent a paradoxical situation from taking place. But then there's another possibility: The future or past you enter may just be a parallel universe. Think of it as a separate sandbox: You can build or destroy any castle you want in it, but it doesn't affect your home sandbox in the slightest. So if the past you travel into is found in a separate timeline, killing your grandfather in cold blood is no big whoop. Of course, this could mean that every time the jaunt would land you in a new parallel universe and you may never return to your original sandbox. Confused yet? Welcome to the world of time travel. Explore the links below for even more mind-blowing cosmology. Related Articles NOVA Online: Time TravelTo the Universe with Hawking Cleland, Andrew. Personal interview. April 2010.Davies, Paul. How to build a time machine. Penguin. March 25, 2003.Davies, Paul. Personal interview. April 2010.Franknoi, Andrew. Light as a Cosmic Time Machine. Penguin. March 1, 2011) the Universe with Stephen Hawking. Discovery Channel.Kaku, Michio. Parallel Worlds: A Journey Through Creation, Higher Dimensions, and the Future of the Cosmos. Anchor. Feb. 14, 2006. Kerr Black Holes and Time Travel by forbidding you from killing your grandfather. Wired. 20 July 2010. (Mach 1, 2011) If you take a lot of business trips, you might be wondering if you're getting paid enough. After all, an hour spent on work should count as work, whether you're traveling, sitting at your desk, or in a meeting, right? In fact, the answer is more complicated. Employees have the right to be paid for part of their travel time, but not all. Your right to be paid for travel time depends on whether you are overnight, your regular working hours and your commute to the airport or other travel hubs. Commuting and traveling at work You don't have the right to get paid for your regular workplace and back home at the end of the day. However, if employees are required to take employers who transport from a central location to work, this time may have to be paid. Employees have to go on service calls, the time spent and from customer locations must be paid. Even an employee whose job does not normally involve travel may be entitled to pay for travel time if the employee is required to come to the workplace at odd hours to deal with an emergency may have the right to pay not only for the hours spent at work, but also for the time it took to get to and from work. Business day trips If you go on a one-day trip, you must be paid for the time you spend travelling. But the employer doesn't have to pay for the time it takes you to get to the airport or public transport hub. This time is categorised as unpaid commuting time, even if it takes the employee longer than his or her Commute. Overnight travel If you spend more than a day outside the city, the rules are different. Of course, you have the right to pay for time spent traveling during the hours when you regularly work (that is, the time of day when you usually work), even if you usually work Monday to Friday but travel on the weekend. More information To learn more, see Nolo's section on Your rights to fair pay and time off from work. For in-depth information on your rights to fair pay and time off from work. For in-depth information on your rights to fair pay and time off from work. For in-depth information on your rights to fair pay and time off from work. gentlemanly basics a tailored twist. By Naomi Nevitt The feeling in our garments should be the same feeling that you get when you put on that favorite shirt you inherited from your grandfather, says Jockum Hallin, half of the Stockholm-based menswear brand Our Legacy. Unlike many of their trend-conscious peers who are in what Hallin calls the spandexjeans-race, Our Heritage takes an understated approach to fashion, crafting well-made basics with perseverance and a dash of wit. Founded in 2005, Hallin first launched Our Legacy with partner and childhood friend Cristopher Nying as a range of illustrated T-shirts, bringing together the duo's graphic design roots with their long-standing fashion obsession. Now, in its sixth collection, the label will launch its first full ready-to-wear line this season. Still, the duo have not abandoned their art background, producing signature collaboration design items, such as limited edition specially designed track bikes and splash-painted umbrellas —accessories for the modern gentleman—along with their range of bespoke basics. The spring line, titled The Swing of the Pendulum, was designed as the wardrobe of an imaginary character named Sean de Germand that Hallin and Nying dreamed up and then plans to write a book about. An AWOL Oxford schoolboy, germand ran off to Paris to immerse himself in the art scene, and Hallin and Nying based their collection around his would-be traditional wardrobe – tartan button-downs, cotton suit, and love worn chinos. This fall, the duo plan to continue their character's art-world foray, dabbling heavier in the 1940s-inspired suit, including three-button wool jackets and pleated wool-cashmere pants. People in Stockholm are a bit worried about not being hip, says Hallin. We try to step away from it and create collections that are timeless and classic. Those looking for avant-garde design may find us a bit boring, but I guess you can't please everyone. For more information and availability, see www.ourlegacy.se. Our heritage gives gentlemanly a tailor-made twist. Going back in time to visit an earlier era is a one Dream. It is a staple of SF and fantasy novels, movies and TV shows. Who wouldn't want to go back and see the dinosaurs or watch the birth of the universe or meet their great-grandparents? What could possibly go wrong Can someone travel to an earlier era to correct an error, make another decision, or even completely change the course of history? Did it happen? Is that even possible? There are a lot of questions about travel in the past, but not very many solutions. The best answer science can give us right now is: it is theoretically possible. But no one has. It turns out that people time travel all the time, but only in one direction: from the past to the present and moving into the future. Unfortunately, no one has any control over how fast that time passes and no one can stop time and continue to live. It seems that time is a one-way street, always forward. If time floated the other way, people would remember the future instead of the past. That sounds very counterintuitive. So, on the face of it, traveling into the past seems to be a violation of the laws of physics. But not so fast! It turns out that there are theoretical considerations to consider whether someone wants to build a time machine that goes back to the past. They involve exotic gateways called wormholes, or any science fictional-sounding creation of gateways using a technology that is not yet available to science. NASA The idea of building a time machine, like the ones often depicted in science fiction movies, is likely the stuff of dreams. Unlike the traveler in H.G. Wells's Time Machine, no one has figured out how to build a special carriage that runs from now until yesterday. But astrophysics gives us a possible path: one could use the power of a black hole to venture through time and space. How would that work? According to general relativity, a rotating black hole could create a wormhole—a theoretical link between two space-time points, or perhaps even two points in different universes. But there is a problem with black holes. They have long been thought to be unstable and therefore un-traversable. But recent advances in physics theory have shown that these designs could in fact provide a way to travel through time. Unfortunately, we have almost no idea what to expect by doing so. Theoretical physics is still trying to predict what would happen inside the wormhole, provided one could even approach such a place. More to the point, there is no current technical solution that would allow us to build a craft that would allow making that journey safely. Right now, as it stands, once a ship enters the black hole, it will be crushed by incredible gravity. made one with the singularity in the heart of the black hole. But for the sake of discussion, what if it was possible to pass through a wormhole? What would people experience? Some suggest it would probably be a lot like Alice falling through the rabbit hole. Who knows what we'd find on the other side? Or within what time frame? Until someone can find a safe way to make that trip, we're not likely to find out. The idea of entering the past raises all sorts of paradoxical questions. For example, what happens if a person goes back in time and kill a dictator and change history, or save the life of a famous person. An entire episode of Star Trek was built around that idea. It turns out that the time traveler effectively creates an alternate reality or parallel universe. So, if someone traveled back and prevented someone else's birth, or murdered someone, a younger version of the victim would never come to be in that reality. And it may or may not continue as if nothing had changed. By going back in time, the traveler creates a new reality and would therefore never be able to return to the reality for his parents when they were in high school, and that changes his own reality. He comes home and discovers that his parents are not quite the same as when he left. Did he create a new alternate universe? Theoretically, he did. This brings us to another issue that is rarely discussed. The type of wormhole is to take a traveler to another time and space. So if someone left Earth and traveled through a wormhole, they could be transported to the other side of the universe (assuming they are still in the same universe we are currently occupying). If they wanted to travel back through the wormhole they just left (bring them back, probably, to the same time and place), or travel by more conventional means. Two spaceships enter a wormhole in outer space to get to a universe in another part of the galaxy. Wormholes are also relied upon in SF for time travelers would even be close enough to make it back to Earth in their lifetime from wherever wormholes spat them out, would it still be past when they returned? As traveling at speeds approaching that of light makes time slow down for voyager, time would pass very, very quickly back on Earth. So, the past (relative to time on Earth), by being so far away it is possible that they would not make it back to Earth at any reasonable time associated with when they left. This would completely negate the whole purpose of time travel. In Back to the Future a specially appointed DeLorean was the vehicle that took the film's characters back and forth in time. Charles Eshelman/Getty Images Possible? Yes, theoretically. Likely? No. at least not with our current technology and understanding of physics. But perhaps one day, thousands of years into the future, people could harness enough energy to make repeated views of Back to the Future. Edited by Carolyn Collins Petersen. Petersen.

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