



"Since I've become more observant of how bikes and cars interact, I've decided that bicyclists have two major safety threats: cars and themselves." --  
**Lee Nichols**

# How to Not Get Hit by Cars



## *important lessons on Bicycle Safety*

by Michael Bluejay | Versions in: [French](#) - [Spanish](#) - [Catalan](#)

Versions for: [Brits](#) / [Aussies](#) (riding on opp. side of road)

### Fan Mail

**Splendid!** I have been commuting to work year round for several years, and have come to many of the same conclusions you have. You put things very clearly, and there are a few points I hadn't thought of--thank you! I'm going to pass this info around. --Ron Grosslein, Amherst, MA

**I would like to say that your site is absolutely terrific.** From the title to the last word, it is logical, sensible, and utterly devoted to what should be every cyclist's number-one priority: avoiding death and injury. Way to go! -- Phil Hickey, Boulder, CO

**I'm saved! I have got to tell all my friends about this site!** (Both biking and non-biking.) Seriously, great advice and great graphics. I am going to try to get our club webmaster to link to you. -- Gerry Maron Carolina Cyclers; Palmetto Cycling Coalition

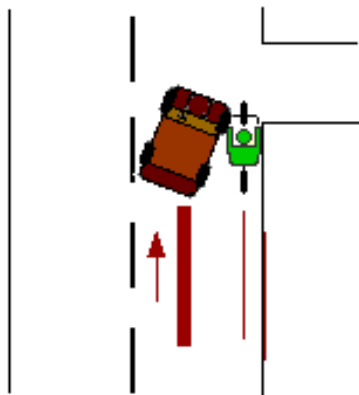
See [more fan mail](#).

### Safe Road Riding Game/Quiz

The Pennsylvania Dept. of Transportation has an excellent

## **This page shows you real ways you can get hit**

**and real ways to avoid them.** This is a far cry from normal bicycle safety guides, which usually tell you little more than to wear your helmet and to follow the law. But consider this for a moment: **Wearing a helmet will do absolutely nothing to prevent you from getting hit by a car!** Sure, helmets might help you *if* you get hit, and



it's a good idea to wear one, but **your #1 goal should be to avoid getting hit in the first place.** Plenty of cyclists are killed by cars *even though they were wearing helmets.* Ironically, if they had ridden *without* helmets, yet followed the guidelines listed below, they might still be alive today. Don't confuse wearing a helmet with biking safely. An ounce of prevention is worth a pound of cure. It's better to not get hit. That's what real bicycle safety is about.

As for following the law, most people are already aware that it's stupid to race through a red light when there's cross traffic, so the "follow the law" advice isn't that helpful

because it's too obvious. What you'll find here are several scenarios that maybe AREN'T that obvious.

The other problem with the "follow the law" message is that people may think that's all they need to do. But following the law is not enough to keep you safe, not by a long shot. Here's an example: The law tells you to ride as far to the right as is practicable. But if you ride too far to the right, someone exiting a parked car could open their

door right in front of you, you'll be less visible to motorists pulling out of driveways and parking lots, and motorists coming from behind may pass you way too closely in the same lane because you didn't make them change lanes. In each of these cases you could have

been following the law, but could still have been hit.

Obviously, cruising through a stop sign *when there's no cross traffic* isn't necessarily dangerous, but we can't recommend that you do so, because it's *against the law*, not because it's unsafe. You should understand the difference. By all means follow the law, but understand why you're doing so. This page doesn't focus on the law, it focuses on how to not get hit by cars. Now let's see how to do so.

**TIP: The Uninsured Motorist clause on your auto insurance may pay if you're hit & runned while bicycling. Check your policy.**

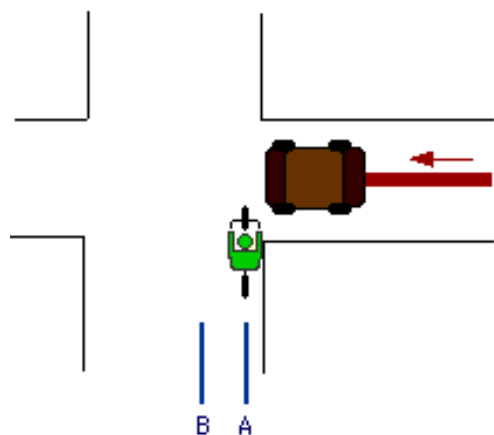
### [Safe Road Riding Game/Quiz.](#)

Most bike safety stuff I see tells you little more than to wear your helmet and follow the law -- as though it were that easy to be safe. But PennDOT's quiz presents real-world scenarios: How do you avoid that car door opening in front of you? What do you do when you're approaching a sewer grate? Good stuff.

# Ten Ways to Not Get Hit

## Collision Type #1:

## The Right Cross



**This is one of the most common ways to get hit (or almost get hit). A car is pulling out of a side street, parking lot, or driveway on the right.** Notice that there are actually two possible kinds of collisions here: Either you're in front of the car and the car hits you, or the car pulls out in front of you and you slam into it.

### How to avoid this collision:

- 1. Get a headlight.** If you're riding at night, you should absolutely use a front headlight. It's required by law, anyway. Even for daytime riding, a bright white light that has a flashing mode can make you more visible to motorists who might otherwise Right Cross you. Look for the new LED headlights which last ten times as long on a set of batteries as old-style lights.
- 2. Honk.** Get a loud horn and USE IT whenever you see a car approaching (or waiting) ahead of you and to the right. If you don't have a horn, then yell "Hey!" You may feel awkward honking or yelling, but it's better to be embarrassed than to get hit. Incidentally, the UK requires bells on bicycles.
- 3. Slow down.** If you can't make eye contact with the driver (especially at night), slow down so much that you're able to completely stop if you have to. Sure, it's inconvenient, but it beats getting hit. *Doing this has saved my life on too many occasions to count.*
- 4. Ride further left.** Notice the two blue lines "A" and "B" in the diagram. You're probably used to riding in "A", very close to the curb, because you're worried about being hit from behind. But take a look at the car. When that motorist is looking down the road for traffic, he's not looking in the bike lane or the area closest to the curb; he's looking in the MIDDLE

## Reflective Stickers

Stickers help you be seen by cars, even during the day. Here are some sites selling reflective stickers and tape:

- [StreetGlo](#)
- [Applied Graphics](#)

## Lighting

These are neat:

- [Fossil Fool Neon Glow Lights](#)

## Reflective Clothing

- [Shirts, Jackets, Hats](#)
- [Gloves](#)

## Other Bicycle Safety Resources

- [Ken Kifer's Bike Safety pages](#)
- [Urban Cycling's directory of bike safety advice](#) from various sources

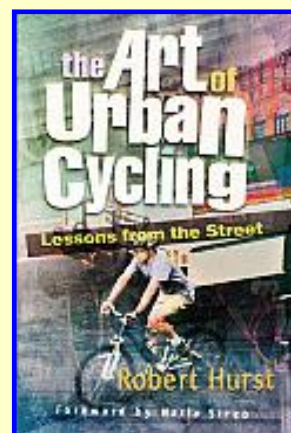
of the lane, for other cars. The farther left you are (such as in "B"), the more likely the driver will see you. There's an added bonus here: if the motorist doesn't see you and starts pulling out, you may be able to go even FARTHER left, or may be able to speed up and get out of the way before impact, or roll onto their hood as they slam on their brakes. In short, it gives you some options. Because if you stay all the way to the right and they pull out, your only "option" may be to run right into the driver's side door. *Using this method has saved me on three occasions in which a motorist ran into me and I wasn't hurt, and in which I definitely would have slammed into the driver's side door had I not moved left.*

Of course, there's a tradeoff. Riding to the far right makes you invisible to the motorists ahead of you at intersections, but riding to the left makes you more vulnerable to the cars behind you. Your actual lane position may vary depending on how wide the street is, how many cars there are, how fast and how close they pass you, and how far you are from the next intersection. On fast roadways with few cross streets, you'll ride farther to the right, and on slow roads with many cross streets, you'll ride farther left.

[Bicycle Safety equipment](#)

Book:

## The Art of Urban Cycling



**The Urban Cycling Manual dismantles the urban cycling experience** and slides it under the microscope, piece by piece. Author Robert Hurst discusses how, in America, bicyclists were an afterthought at best when our cities were planned and built, and today are left to navigate through a hard and unsympathetic world that was not made for them--like rats in a sewer. Yet, with the proper attitude and a bit of knowledge, urban cyclists will thrive in this hostile environment. The primary concern is safety, but this book goes well beyond the usual tips and how-to, diving in to the realms of history, psychology, sociology, and economics. It empowers readers with the Big Picture of urban cycling--and gives

### Collision Type #2:

## The Door Prize



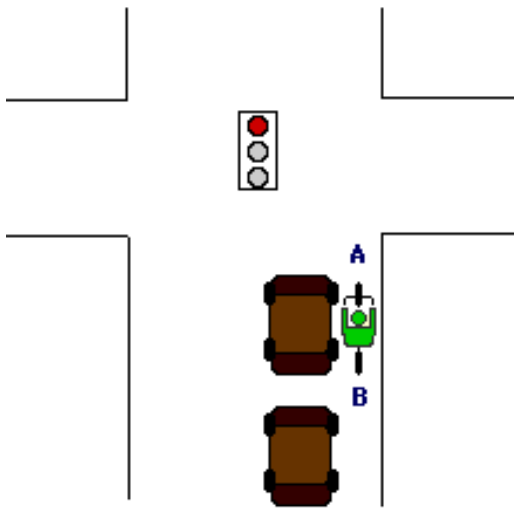
**A driver opens his door right in front of you. You run right into it if you can't stop in time.** If you're lucky, the motorist will exit the car before you hit the door, so you'll at least have the pleasure of smashing them too when you crash, and their soft flesh will cushion your impact. One advocate has compiled a list of [cyclists killed by running into open car doors](#).

### How to avoid this collision:

**Ride to the left.** Ride far enough to the left that you won't run into any door that's opened unexpectedly. You may be wary about riding so far into the lane that cars can't pass you easily, but you're MUCH more likely to get doored by a parked car if you ride too close to it than you are to get hit from behind by a car which can clearly see you.

### Collision Type #3:

## Red Light of Death



**You stop to the right of a car that's already waiting at a red light or stop sign. They can't see you. When the light turns green, you move forward, and then they turn right, right into you.** Even small cars can do you in this way, but this scenario is especially dangerous when it's a bus or a semi that you're stopping next to. An Austin cyclist was killed in 1994 when he stopped to the right of a semi, and then it turned right. He was crushed under its wheels.

### How to avoid this collision:

urban cyclists many useful insights to consider while pedaling the next commute or grocery run. Riding a bike in the city will never be the same. -- by the publisher

**\$14.95 - [Buy Now](#)**

### Why you don't see "wear a helmet" advice here

Everybody asks about this one, so [here's the answer.](#)

### Links

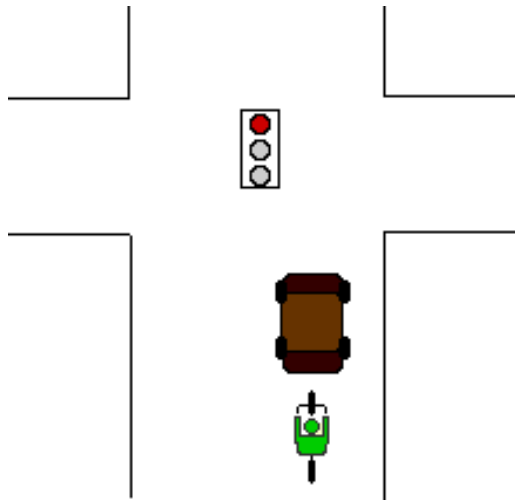
See the [other sites which link to us.](#)

### Note to "Effective Cycling" fans

If you're about to send me an email telling me how stupid the advice on this site is, please save yourself the trouble. Trust me, I've heard all the arguments before (ad nauseum) and I simply disagree. I never write to EC websites to complain that I don't like *their* advice, so there's no need for you to complain about mine. (Here's more about the the [difference of opinion](#) for those wondering what the fuss is about.)

**Don't stop in the blind spot.** Simply stop BEHIND a car, instead of to the right of it, as per the diagram below. This makes you very visible to traffic on all sides. It's impossible for the car behind you to avoid seeing you when you're right in front of it.

Another option is to stop at either point A in the diagram above (where the first driver can see you), or at point B, behind the first car so it can't turn into you, and far enough ahead of the second car so that the second driver can see you clearly. It does no good to avoid stopping to the right of the first car if you're going to make the mistake of stopping to the right of the second car. EITHER car can do you in.



If you chose spot A, then ride quickly to cross the street as soon as the light turns green. Don't look at the motorist to see if they want to go ahead and turn. If you're in spot A and they want to turn, then *you're in their way*. Why did you take spot A if you weren't eager to cross the street when you could? When the light turns green, just go, and go quickly. (But make sure cars aren't running the red light on the cross street, of course.)

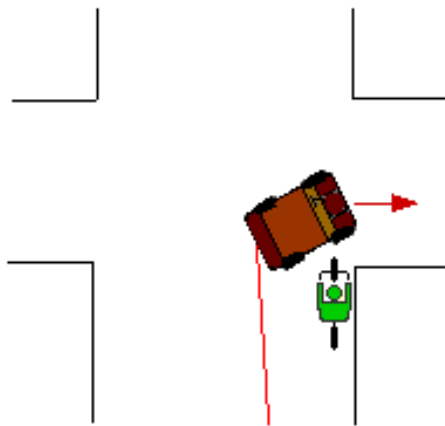
If you chose spot B, then when the light turns green, DON'T pass the car in front of you -- stay behind it, because it might turn right at any second. If it doesn't make a right turn right away, it may turn right into a driveway or parking lot unexpectedly at any point. *Don't count on drivers to signal!* They don't. Assume that a car can turn right at any time. (NEVER pass a car on the right!) But try to stay ahead of the car behind you until you're through the intersection, because otherwise they might try to cut you off as they turn right.

While we're not advocating running red lights, notice it is in fact safer to run the red light if there's no cross traffic, than it is to wait legally at the red light directly to the right of a car, only to have it make a right turn right into you when the light turns green. The moral here is not that you should break the law, but that you can easily get hurt even if you follow the law.

By the way, *be very careful when passing stopped cars on the right* as you approach a red light. You run the risk of getting doored by a passenger exiting the car on the right side, or hit by a car that unexpectedly decides to pull into a parking space on the right side of the street.

## Collision Type #4:

# The Right Hook



**A car passes you and then tries to make a right turn directly in front of you, or right into you.**

They think you're not going very fast just because you're on a bicycle, so it never occurs to them that they can't pass you in time. Even if you have to slam on your brakes to avoid hitting them, they often won't feel they've done anything wrong. This kind of collision is very hard to avoid because you typically don't see it until the last second, and because there's nowhere for you to go when it happens.

## How to avoid this collision:

**1. Don't ride on the sidewalk.** When you come off the sidewalk to cross the street you're invisible to motorists. You're just begging to be hit if you do this. [Keith Vick](#) was killed this way in Austin, TX in Dec. 2002.

**2. Ride to the left.** Taking up the whole lane makes it harder for drivers to pass you to cut you off or turn into you. Don't feel bad about taking the lane: if motorists didn't threaten your life by turning in front of or into you or passing you too closely, then you wouldn't have to. If the lane you're in isn't wide enough for cars to pass you safely, then you should be taking the whole lane *anyway*. Lane position is discussed in more detail below.

**3. Glance in your mirror before approaching an intersection.** (If you don't have a handlebar or helmet mirror, get one now.) Be sure to look in your mirror *well before* you get to the intersection. When you're actually going through an intersection, you'll need to be paying very close attention to what's in *front* of you.

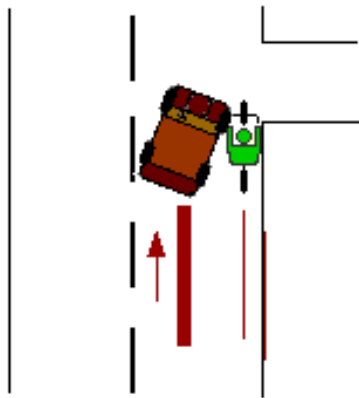
## Collision Type #5:

# The Right Hook, Pt. 2

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**You're passing a slow-moving car (or even another bike) on the right, when it unexpectedly makes a right turn right into you, trying to get to a parking lot,driveway or side street.**

## How to avoid this collision:

**1. Don't pass on the right.** This collision is very easy to avoid. Just don't pass any vehicle on the right. If a car ahead of you is going only 10 mph, then you slow down, too, behind

it. It will eventually start moving faster. If it doesn't, pass *on the left* when it's safe to do so.

When passing cyclists on the left, announce "on your left" before you start passing, so they don't suddenly move left into you. (Of course, they're much less likely to suddenly move left without looking, where they could be hit by traffic, then to suddenly move right, into a destination.) If they're riding too far to the left for you to pass safely on the left, then announce "on your right" before passing on the right.

If several cars are stopped at a light, then you can try passing on the right *cautiously*. Remember that someone can fling open the passenger door unexpectedly as they exit the car. Also remember that if you pass on the right and traffic starts moving again unexpectedly, you may suffer [#3, the Red Light of Death](#).

Note that when you're tailing a slow-moving vehicle, ride behind it, [not in its blind spot](#) immediately to the right of it. Even if you're not passing a car on the right, you could still run into it if it turns right while you're right next to it. Give yourself enough room to brake if it turns.

**2. Look behind you before turning right.** Here's your opportunity to avoid hitting cyclists who violate tip #1 above and try to pass you on the right. Look behind you before making a right-hand turn to make sure a bike isn't trying to pass you. (Also remember that they could be coming up from behind you on the sidewalk while you're on the street.) Even if it's the other cyclist's fault for trying to pass you on the right when you make a right turn and have them slam into you, it won't hurt any less when they hit you.

cycling club are okay.

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## Disclaimer

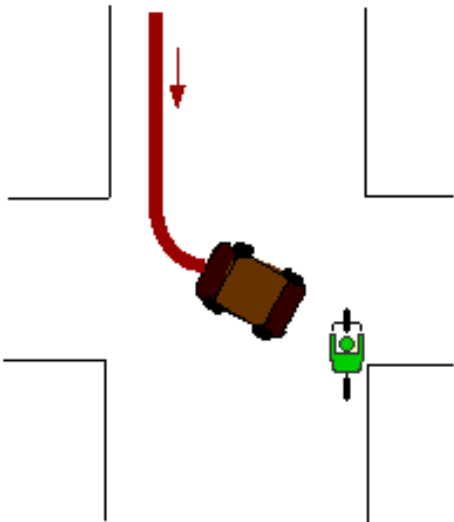
I have developed this page to provide what I believe is very good advice to help you avoid getting hit by cars. But of course, bicycling will never be 100% safe, and I can't guarantee you won't get hit by a car, even if you follow all the advice on this page. (Naturally, I believe if you follow this advice you will be much less likely to suffer a collision than if you ignore it.) Ultimately, you are responsible for your own safety.

## A plug for another site of mine.

I was born into a cult called Aesthetic Realism. Recently I created a website to share my experiences as a former member. You can visit it at [my Aesthetic Realism site](#).

## Collision Type #6:

# The Left Cross



**A car coming towards you makes a left turn right in front of you, or right into you. This is similar to #1, above.** Austin cyclists hit this way include [Dr. Lee Chilton](#), [John Howell](#) (former president of the Austin Cycling Association), and [Janne Osborne](#).

## How to avoid this collision:

**1. Don't ride on the sidewalk.** When you come off the sidewalk to cross the street, you're invisible to turning motorists.

**2. Get a headlight.** If you're riding at night, you should absolutely use a front headlight. It's required by law in most countries, anyway.

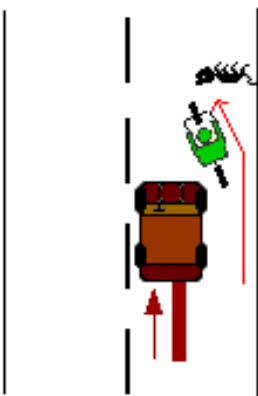
**3. Wear something bright, even during the day.** It may seem silly, but bikes are small and easy to see through even during the day. Yellow or orange reflective vests really make a big difference. Reflective leg bands are also easy and inexpensive.

**4. Don't pass on the right.** Don't overtake slow-moving vehicles on the right. Doing so makes you invisible to left-turning motorists at intersections. Passing on the right means that the vehicle you're passing could also make a right turn right into you, too.

**5. Slow down.** If you can't make eye contact with the driver (especially at night), slow down so much that you're able to completely stop if you have to. Sure, it's inconvenient, but it beats getting hit.

## Collision Type #7:

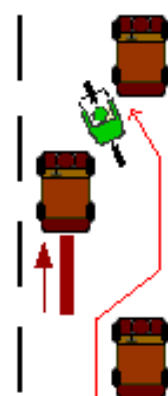
# The Rear End



**You innocently move a little to the left to go around a parked car or some other obstruction in the road, and you get nailed by a car coming up from behind.**

## How to avoid this collision:

**1. Never, ever move left without looking behind you first.** Some motorists like to pass cyclists within mere inches, so moving



even a tiny bit to the left unexpectedly could put you in the path of a car. Practice holding a straight line while looking over your shoulder until you can do it perfectly. Most new cyclists tend to move left when they look behind them, which of course can be disastrous.

**2. Don't swerve in and out of the parking lane if it contains any parked cars.** You might be tempted to ride in the parking lane where there are no parked cars, dipping back into the traffic lane when you encounter a parked car. This puts you at risk for getting nailed from behind. Instead, ride a steady, straight line in the traffic lane.

**3. Use a mirror.** If you don't have one, go to a bike shop and get one now. There are models that fit on your handlebars, helmet, or glasses, as you prefer. You should always physically look back over your shoulder before moving left, but having a mirror still helps you monitor traffic without constantly having to look behind you.

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## Collision Type #8:

# The Rear End, Pt. 2



**A car runs into you from behind. This is what many cyclists fear the most, but it's not the most common kind of accident (except maybe at night, or on long-distance rides outside the city). However, it's one of the hardest collisions to avoid, since you're not usually looking behind you.** The best way to avoid this one is to ride on very wide roads or in bike lanes, or on roads where the traffic moves slowly. Austin cyclists [Tom Churchill](#) and [Andrew Turner](#), and probably William Sigtryggsson died this way. All three of these incidents happened at night, and at least two of them didn't have lights. Getting rear-ended in the daylight is rare.

## How to avoid this collision:

**1. Get a rear light.** If you're riding at night, you **absolutely** should use a flashing red rear light. Bruce Mackey (formerly of Florida, now head of bike safety in Nevada) says that **60% of bike collisions in Florida are caused by cyclists riding at night without lights.** In 1999, 39% of deaths on bicycles nationwide occurred between 6 p.m. and midnight. [USA Today, 10-22-01, attributed to the Insurance Institute for highway safety]

Bike shops have red rear blinkies for \$15 or less. These kind of lights typically take two AA batteries, which last for months (something like 200 hours). **I can't stress this item enough: If you ride at night, get a rear light!**

**2. Wear a reflective vest or a safety triangle.** High quality reflective gear makes you a lot more visible even in the day time, not just at night. I had a friend ride away from me while wearing one during the day, and when she was about a quarter mile away, I couldn't see her or her bike at all, but the vest was clearly visible. At night the difference is even greater. Bike shops have vests and triangles for \$10 to \$15. Also, when you hear a motorist approaching, straightening up into a vertical position will make your reflective gear more noticeable.



**3. Choose wide streets.** Ride on streets whose outside lane is so wide that it can easily fit a car and a bike side by side. That way a car may zoom by you and avoid hitting you, *even if they didn't see you!*

**4. Choose slow streets.** The slower a car is going, the more time the driver has to see you. I navigate the city by going through neighborhoods. Learn how to do this.

**5. Use back streets on weekends.** The risk of riding on Friday or Saturday night is much greater than riding on other nights because all the drunks are out driving around. If you do ride on a weekend night, make sure to take neighborhood streets rather than arterials.

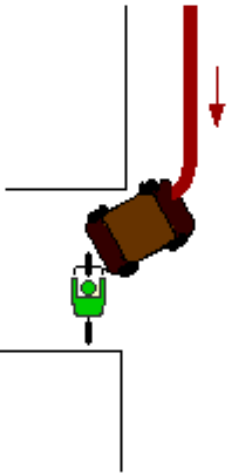
**6. Get a mirror.** Get a **mirror** and use it. If it looks like a car doesn't see you, hop off your bike and onto the sidewalk. Mirrors cost \$5-15. Trust me, once you've ridden a mirror for a while, you'll wonder how you got along without it. My paranoia went down 80% after I got a mirror. If you're not convinced, after you've used your mirror for a month, take it off your bike and ride around and notice how you keep glancing down to where your mirror was, and notice how unsafe you feel without it.

**7. Don't hug the curb.** This is counter-intuitive, but give yourself a little space between yourself and the curb. That gives you some room to move into in case you see a large vehicle in your mirror approaching without moving over far enough to avoid you. Also, when you hug the curb tightly you're more likely to suffer a [right cross](#) from motorists who can't see you.

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## Collision Type #9:

# The Crosswalk Slam



**You're riding on the sidewalk and cross the street at a crosswalk, and a car makes a right turn, right into you.** Cars aren't expecting bikes in the crosswalk, so you have to be VERY careful to avoid this one.

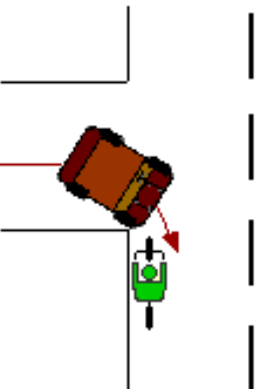
[Devorah Feldman](#) was hit in this type of collision, suffering permanent injuries. This collision is so common we've lost track of the number of people who've told us they were hit this way, such as [Ray John Ray](#).

### How to avoid this collision:

- 1. Get a headlight.** If you're riding at night, you should absolutely use a front headlight. It's required by [law](#), anyway.
- 2. Slow down.** Slow down enough that you're able to completely stop if necessary.
- 3. Don't ride on the sidewalk in the first place.** Crossing between sidewalks can be a fairly dangerous maneuver. If you do it on the left-hand side of the street, you risk getting slammed as per the diagram. If you do it on the right-hand side of the street, you risk getting slammed by a car behind you that's turning right. You also risk getting hit by cars pulling out of parking lots or driveways. These kinds of accidents are hard to avoid, which is a compelling reason to not ride on the sidewalk in the first place.

And another reason not to ride on the sidewalk is that you're threatening to pedestrians. Your bike is as threatening to a pedestrian as a car is threatening to you. Finally, riding on the sidewalk is illegal in some places. (In Austin, those places are the Drag, and downtown on 6th St. and on Congress). If you do plan on riding on sidewalks, do it slowly and EXTRA carefully, ESPECIALLY when crossing the street between two sidewalks.

## Collision Type #10: The Wrong-Way Wallop



**You're riding the wrong way (against traffic, on the left-hand side of the street). A car makes a right turn from a side street, driveway, or parking lot, right into you. They didn't see you because they were looking for traffic only on their left, not on their right. They had no reason to expect that someone would be coming at them from the wrong direction.**

Even worse, you could be hit by a car on the same road coming at you from straight ahead of you. They had less time to see you and take evasive action because they're approaching you faster than normal (because you're going towards them rather than away from them). And if they hit

you, it's going to be much more forceful impact, for the same reason. (Both your and their velocities are combined.)

## How to avoid this collision:

**Don't ride against traffic.** Ride *with* traffic, in the same direction.

Riding against traffic may seem like a good idea because you can see the cars that are passing you, but it's not. Here's why:

1. Cars which pull out of driveways, parking lots, and cross streets (ahead of you and to the left), which are making a right onto your street, aren't expecting traffic to be coming at them from the wrong way. They won't see you, and they'll plow right into you.
2. How the heck are you going to make a right turn?
3. Cars will approach you at a much higher relative speed. If you're going 15mph, then a car passing you from behind doing 35 approaches you at a speed of only **20** (35-15). But if you're on the wrong side of the road, then the car approaches you at **50** (35+15), which is 250% faster! Since they're approaching you faster, both you and the driver have lots less time to react. And if a collision does occur, it's going to be ten times worse.
4. Riding the wrong way is illegal and you can get ticketed for it. Bruce Mackey says that 25% of cycling collisions are the result of the cyclist riding the wrong way.

There's one *possible* exception to riding the wrong way. When you're riding in the country on narrow, high-speed roads, it may be helpful to ride against traffic so you can see what you're up against. Compared to city traffic, country traffic is likely to have less roadspace for bikes and cars to share. That being the case, riding the wrong way allows you to bail into the shoulder if a car doesn't see you. You don't have problem #1 above because side traffic is rare, and #2 is avoided because you're riding primarily along one road and not turning right.

Country traffic is more likely to be sparse, which means that you may have the ability to switch to the "correct" side of the road when a car approaches you from ahead. I did a 100-mile ride with a friend once, continually switching from the left-hand side of the road to the right-hand side depending on whether traffic was approaching us from ahead or behind, since a vehicle passed us only once every several minutes -- but when it passed us, it was doing 70mph+, and we wanted to be as far away from it as we could. But remember that vehicles will still approach you faster when you ride the wrong way, and it's still illegal. It's your choice.

## More General Tips

## Avoid busy streets.

One of the biggest mistakes that people make when they start biking is to take the exact same routes they used when they were driving. It's usually better to take the streets with fewer and slower cars. Sure, cyclists have a right to the road, but that's a small consolation when you're dead. Consider how far you can take this strategy: If you learn your routes well, you'll find that in many cities you can travel through neighborhoods to get to most places, only **crossing** the busiest streets rather than **traveling** on them.

## Light up.

Too obvious? Well, if it's so obvious, then why do most night-time cyclists ride without lights? Bike shops have rear red blinkies for \$15 or less. Headlights are just as important as rear lights. Look for the new kind with LED's since they last ten times as long on a set of batteries as old-style lights.

## Take the whole lane when appropriate.

It's often safer to take the whole lane, or at least ride a little bit to the left, rather than hug the right curb. Here's why:

- [Cars at intersections ahead of you](#) can see you better if you're squarely in the road rather than on the extreme edge where you're easily overlooked.
- Taking the lane prevents cars from passing you too closely on narrow roadways.
- Riding a bit to the left prevents you from being a victim of [the door prize](#).

You might worry about slowing down the traffic behind you if you take the lane. But if you're on the kind of street where you've got cars blocked up behind you or constantly changing lanes to get around you, you're probably on the wrong street and should find a quieter neighborhood street.

Taking the lane works especially well in most [traffic circles](#). The traffic generally moves slower so it's easy to keep up, riding in the lane makes you more visible to motorists, and taking the lane prevents motorists from [right hooking](#) you as they exit the circle.

It's perfectly legal for you to take the lane when appropriate. [Texas State Law](#) (and the laws of most other states) says you have to ride as far to the right as is "practicable". Here are some things that make it *impracticable* to ride to the extreme right:

1. **You're in a heavy traffic area with lots of side streets, parking lots, or driveways ahead and to your right.** Cars turning left won't see you because they're looking for traffic in the *middle* of the road, not on the extreme edge of the road. Move left. See [Collision diagram #1](#) above.
2. **Cars are passing you too closely.** If the lane is too narrow for cars to pass you safely, then move left and take the whole lane. Getting buzzed by cars is dangerous.
3. **Cars are parked on the right-hand side of the road.** If you ride too close to these you're gonna get doored when someone gets out of their car. Move left.

There are risks to both riding to the extreme right as well as taking the lane. Whether you ride to the right or take the lane depends on the conditions of the roadway you're on. On wide roadways with slow traffic and few intersections/driveways, ride further right. On fast roadways with lots of traffic and intersections, ride farther to the left. It's not always better to take the lane or to hug the curb; it depends on the roadway you're on.

## Ride as if you were invisible.

**It's often helpful to ride in such a way that motorists won't hit you even if they don't see you.**

You're not trying to BE invisible, you're trying to make it irrelevant whether cars see you or not. If you ride in such a way that a car has to see you to take action to avoid hitting you (e.g., by their slowing down or changing lanes), then that means *they will definitely hit you if they don't see you*. But if you stay out of their way, then you won't get hit *even if they didn't notice you were there*.

On very fast roads cars have less time to see you because they're approaching so fast. Of course, you should avoid fast roads in the first place if at all possible, unless there's plenty of room for a car and a bike side by side. And if there IS such room, then on fast roadways, you can practice invisibility by riding to the extreme right. If you're far enough right that you're not in the part of the lane the cars are in, then they'll zoom by and won't hit you, even if they never saw you.

Here's another example: **It's a good idea to signal a left turn, but it's a better idea to make your left turn at a time or place where there aren't cars behind you that could hit you while you're stopped and waiting to make that turn.** You can hang out in the middle of the street, stopped, with your left arm out, waiting to make your turn, but you're counting on cars behind you to see you and stop. If they don't see you, you're in trouble.

Naturally we don't advocate running red lights, but if you're the kind of person who does, then apply the invisibility principle when deciding on whether to run a particular light: **Could any cross traffic possibly hit me if I were invisible?** If yes, then absolutely don't do it. *Never make a car have to slow down to avoid hitting you (red light or not)*. Remember, the more you rely on cars to see you to avoid hitting you, the more chances they'll have to actually do so.

Remember, you're not trying to BE invisible, you're just riding with the assumption that cars can't see you. **Of course, you certainly want them to see you, and you should help them with that.** That's why you'll wave to motorists whom you think might be about to pull out in front of you, and why you'll be lit up like a Christmas tree at night (front and rear lights).

Remember that in many cases you'll need to take the lane, in which case you're counting on motorists to see you.

**Around 44,000 people die in car crashes in the U.S. each year.  
About 1 in 54 is a bicyclist.**

THANKS FOR READING, AND RIDE SAFELY! :)

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