

Road Bike: slim tyres and an overall design focussed on going fas on-road as effortlessly as possible Their riding position is more aggres
sive than others, which requires more flexibility to ride. They are designed for long distance rides.
Cyclocross bikes have clearance for bigger tyres, and touring bikes ar ing and cyclocross bikes look similar to road bikes but tend to be more versatile. They are also designed for long distance rides.


DR BIKE'S HOW TO BUY A BIKE \& FIX A PUNCTURE

Hybrid: a popular all rounder. A hybrid is like a road-bike with flat handlebars, a hybrid between a road bike and a mountain bike. Most hybrids are
designed for commuting and touring so they are able to take pannier racks.
Some hybrids come with front suspen sion the benefits of which may be son the benefits of which may

Mountain Bike: mountain bikes are designed to go off-road: gravel trails, forestry tracks and dedicated mountain bike trails. They come in many
flavours and can be tedious to ride on-road as they have tyres which are sluggish on paved roads.
Mountain bikes can come with no suspension (rigid), only front suspensuspension (full suspension).

Folding Bikes: the lower end are suitable for short rides and can be folded to fit in the boot of a car. The higher end are lighter weight and fold down into
an easy to carry format, designed to be taken on public transport and suitable for medium-length rides.

USED OR RECONDITIONED Some shops sell reconditioned he new components needed to make the bike safe to ride. Recondi tioned bikes start from around $£ 80$ and come with a few months warranty. This is a good way to get

IT'S TOO GOOD TO BE TRUE You can also buy a used bike privately, but this can be a fals economy. Classineds are often price looks too good to but true it might be. A lot of stolen bikes end up on classifieds: if you buy a bike which is then discovered to have previously been stolen, there is no refund and the Police can take the bike is not stolen.


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## WEAR AND TEAR

Chain \& sprockets (drivetrain): Check for chain wear and make sure that the sp
shark-fins.

Rust: The chain can be a little rusty, but if it is stiff you will need to replace it. Rust is more critical when into the frame
Seat post: Check that the seat post moves! It is worth checking that seat post moves before purchasing a used bike, as a seized post can write-off a frame.
A CHEAP FIX?
Buying a battered bike to keep things cheap can be a false economy. Steel rims will always be heavier and yield inferior braking performance. Common things that need replacing on old the chain, so just to give you a rough idea:

## cables

chain (8 speed)
Labou
total

DR BIKE'S HOW TO FIX A PUNCTURE
"Every time I see an adult on a bicycle, I no longer despair for the future of the human race."

## - H G Wells

\#2 REMOVE TYRE \& TUBE

\#1 (middlle) of the rim - this will loosen
the tyre around the rim.

WHAT IS A PUNCTURE? The tyre provides grip with the ground, and the inner tube is a thin
rubber membrane which contains rubber membrane which contains
the air which cushions you from the bumps and vibrations of the road.
A puncture is caused by something sharp or because you have hit a kerb or a pothole with insufficient pres-
sure to keep the tyre and rim from cutting the tube (snakebite).


\#2 bead out and over the rim edge. Start opposite the valve,
and use more than one lever if available.
\#4 REPLACE \& INFLATE
\#1 $C$ eck the inside of the tyre for a thorn or bit of glass. This is best done by feel, but be careful of your fingers Also, check that the rim tape is correctly centred and not sitting on
\#2 ${ }^{\text {Put some air in the innertube first, jus }}$ enough that it holds its shape: this nakes the easier to not damag.
\#3
Tuck the innertube into the tyre, the insert the innertube into the tyre, then fit one bead into the rim. Starting from the valve, push the second bead of the tyre into the rim with your hands.
\#1 TAKE OFF YOUR WHEEL
Open or unhook your rim brakes.


If your wheel has nuts, then loosen
th your whee has nuts,
them with a 15 mm spanner

\#3 FIX THE PUNCTURE

Most wheels have a quick releas skewer: to remove it, open the cam ever. You may need to loosen the nut on the other side of the wheel (by turning the open cam lever counter-clock shift to the smallest sprocket.

Replacing the back wheel, you hook the chain onto the smallest sprocket, if necessary pull the rear mech back into the dropout. Tighten the quick release or axle nuts and re-connect your brakes.

\#3
Mark where the hole is with chalk, a en or keep your finger on it until you are ready to patch it.

\#4 Patch the puncture
a. Clean puncture with sandpaper
b. Apply thin layer of glue.

c. Peel foil backing off patch. d. Press patch firmly onto tube, then remove plastic backing.

WHAT DO I NEED?
Not much, and nothing very expensive. A new inner tube costs around $£ 6$, having a shop fix your puncture
costs about $£ 10$. All you need to repair a puncture is a puncture repair kit (from £2.50) and a pump (from £2.50).
The cheapest pump that you can get may not be the easiest to pump up balloon tyres, or reach 100psi, but this doesn't mean that you have to
spend a fortune to get a good pump.
\#4
Pump the tyre to under 10psi and visually inspect the tyre to make sure
it is seated evenly on the rim - check both sides! Tyres often have a seam-line in the rubber which makes it easy to

