

BICYCLES

Introduction

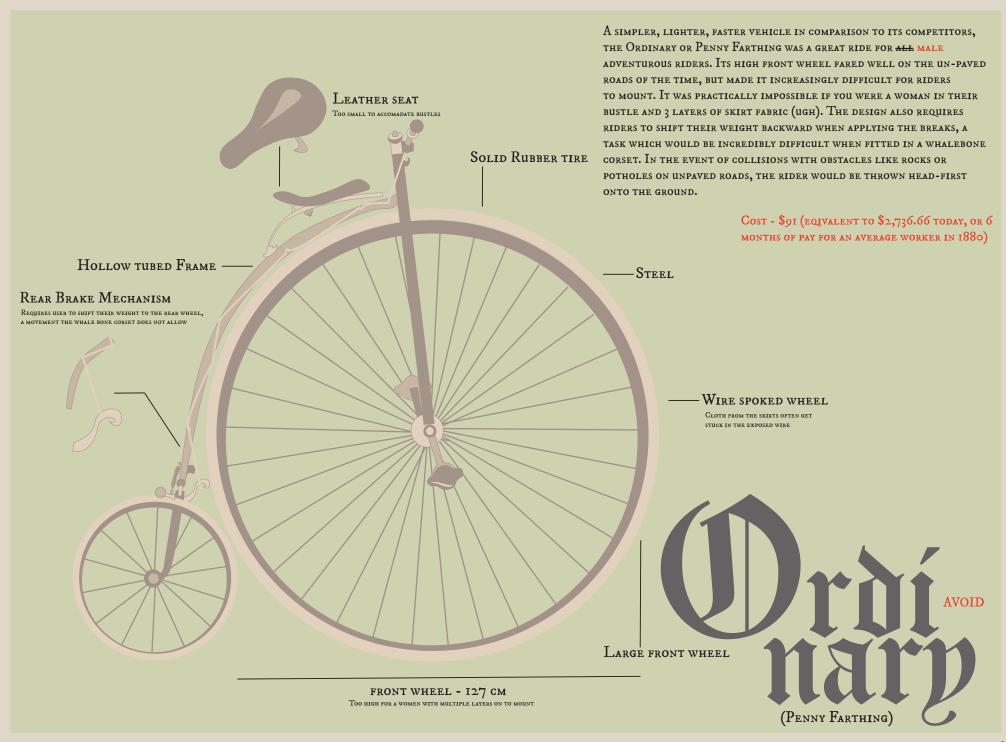
The bicycle was one of the most common methods of personal transportation in the 19th century. It's light weight and easy maneuverability gave its riders more freedom and speed. Due to the socioeconomic situation of the Victorian era, this freedom was only accessible to a small community. This guide aims to broaden the usage of the Ordinary by providing solutions to the hindrances that prevent a large portion of the population from utilizing this machine. Unable to change the price at which these bicycles were available, this guide will focus on making the product more accessible in terms of usability. By re-evaluating the design choices made by manufacturers at the time and drawing inspiration from their successes, the guide will provide alterations to be made and techniques to be used to allow women of the era to ride.

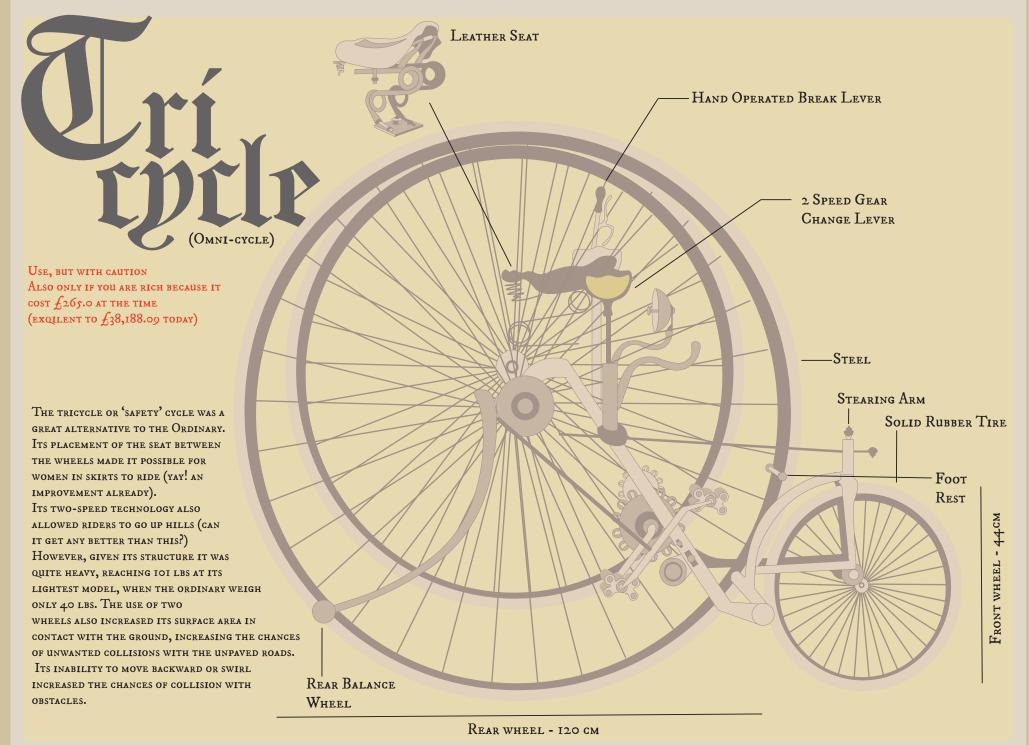
HISTORY

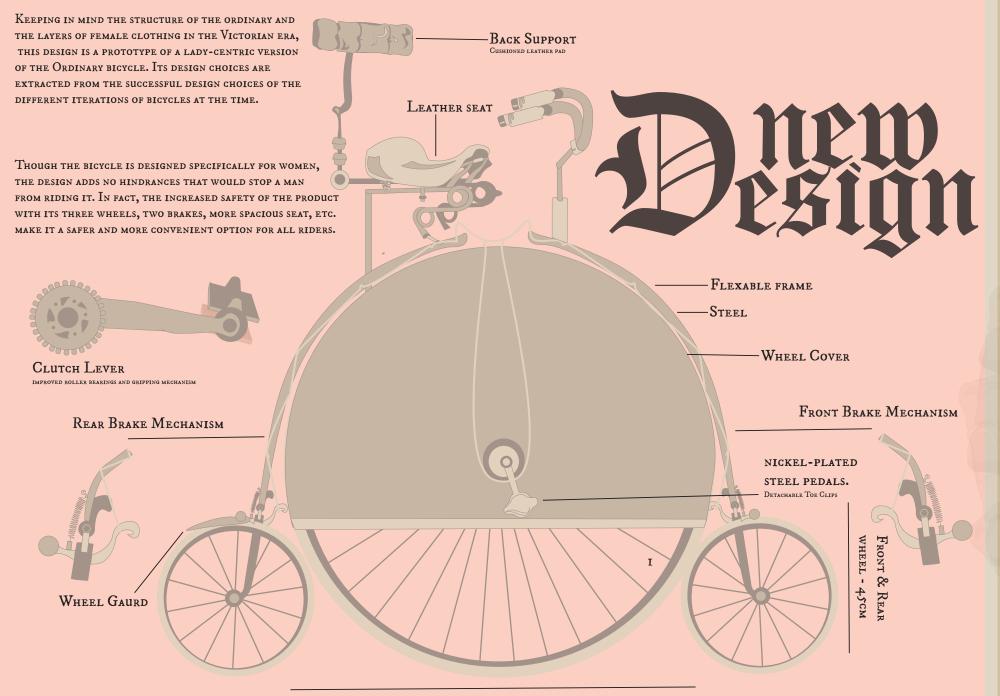
The 1870s saw many advances in the technology surrounding the wheel. Increased metallurgy ability allowed manufacturers to shift to hollow frame tubes which reduced the weight of the bicycles significantly. This reduction allowed them to increase the size of the front wheel, which made the ride much smoother. The larger wheel size also meant an increase in ground area covered with each pedal, making these bicycles far faster than their competitors in the market.

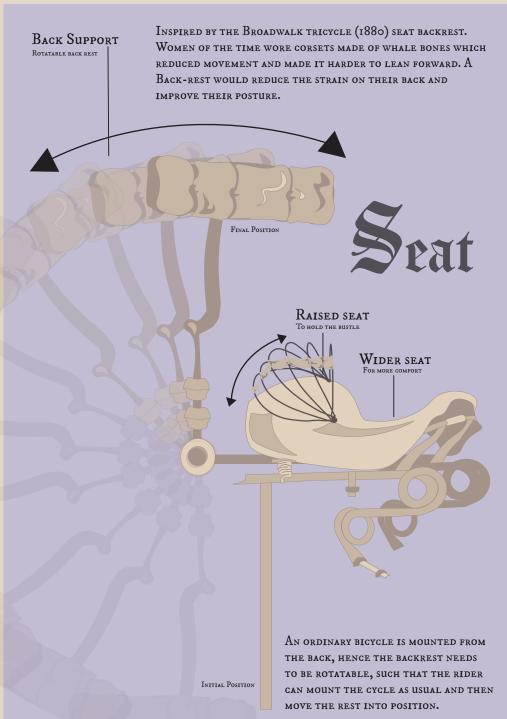
Models available in the market

- I. THE ORDINARY (PENNY FARTHING)
- A. Ordinary Bicycle Coventry Machinists 1870 (Single Speed)
- B. Marsch & Kretzschmar Safety Star- Marsch & Kretzschmar 1887 (Two speed)
- C. American Eagle Eagle Bicycle Manufacturing Co. 1889 (detachable toe clips)
- 2. THE TRICYCLE
- A. STANLEY ROYAL SALVO 1880 (TWO-SPEED, HAND BREAK)
- B.Antelope Tricycle 1884 (Bridle-Rod Steering Linkage)
- C. COLUMBIA TRICYCLE- POPE MANUFACTURING 1888 (HEAVY SHOCK RESISTANCE)











Rubber Tire

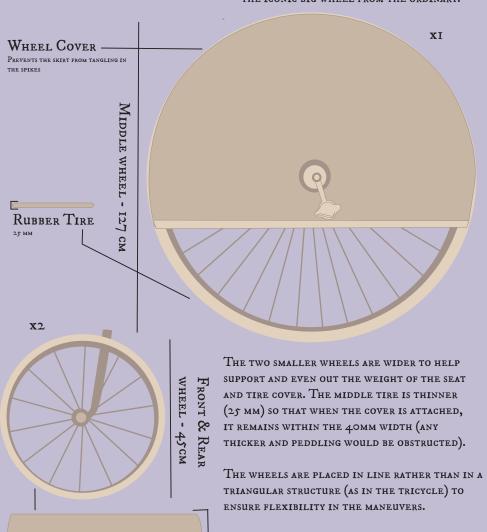
Inspired by the unknown tricycle of the 1800s (ONE BIG WHEEL IN THE MIDDLE, TWO SMALLER ONES IN THE FRONT AND BACK, ALL IN LINE). THE LINEUP PROVIDES MORE STABILITY TO THE STRUCTURE AND ALLOWS FOR A LARGER SEAT WHILE STILL MAINTAINING THE ICONIC BIG WHEEL FROM THE ORDINARY.

Tires are made of steel and covered with

RUBBER (THEY FOLLOW THE GENERAL DESIGN

OF THE TIME)

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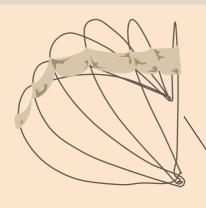


Introduction

Ideally, the rider would wear pants, as they allow increased mobility and reduce the chances of accidents. However, the guide understands that it is impossible to change fashion for a product, and a more viable solution to design a product around the fashion. Keeping the fashion trends of the 1870s-1900s in mind, the bicycle was altered. To increase safety, certain changes have been made to the outer layer of the attire which can be worn in place of pre-existing skirts. A simple addition to the wardrobe allows women to enjoy the experience of riding the Ordinary without having to forgo their style. The inner layers remain the same, allowing riders to easily change between their day attire and their riding attire without additional help.

The most common fashion of the Victorian era was marked with the bustle, a structure worn under the skirt to increase the volume of the attire from the back. An underskirt was then added on top to emphasize the ruffles. This was then ornamented with an outer layer skirt, the piece of clothing this guide seeks to replace. The upper portion of the outfit remains intact.

CLOTHING



LAYER ONE - BUSTLE

A REPLACEMENT TO THE CAGE CRINOLINE, THIS FOLDABLE STRUCTURE HELD THE BACK PLEATS OF THE DRESS IN PLACE. THE 'NEW PHANTOM' BUSTLE, PATENTED IN 1884, FEATURED THE RUFFLES. AS THESE WERE OPEN FROM A CONVENIENT PIVOT, ALLOWING THE STEEL WIRES TO COLLAPSE WHEN THE WEARER SITS DOWN AND OPENS UP AGAIN ADDITIONAL RESTRAINTS TO THE WHEN RISING. THIS FEATURE WOULD BE CONVENIENT WHILE RIDING THE BICYCLE AS THE BUSTLE COULD FOLD AND REST ON THE HIGHER END OF THE SEAT AT THE BACK WHILE THE RIDER COMFORTABLY SAT ON THE LOWER PORTION.

LAYER TWO - UNDERSKIRT

THE UNDERSKIRT WAS TYPICALLY WORN TO ADD LAYERS TO THE SKIRT AND EMPHASIZE THE FRONT, IT WOULD NOT ADD ANY RIDER. THE METALLIC WIRES ON THE BOTTOM HALF WERE COLLAPSABLE.

LAYER THREE - OUTER SKIRT

THE OUTER LAYERS WERE TYPICALLY THE MOST ORNAMENTAL. THEIR FULL COVERAGE WOULD BE A HINDRANCE TO THE RIDER. REPLACING THIS WITH A FLARED WRAP-AROUND THAT WAS WIDE ENOUGH TO SIT OVER THE TIRE COVER WOULD ALLOW THE RIDER TO MOUNT, RIDE, AND DISMOUNT THE CYCLE WITHOUT ANY WORRIES. THE TWO SLITS WOULD ALLOW THE

Introduction

The Ordinary's high wheel makes the riding process more complicated and risky. A step-by-step guide on the mounting, riding, and stopping process follows.

Caution: these processes are risky and may lead to injuries. It is advisable to practice these in softer, safer spaces without obstacles and traffic while training. Wear protection around the head, elbows, and knees.

How To RIDE

