


**Project Presentation**

# Functional Analysis Of Bicycle




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## Outline

- > History
- > Usage
- > Components
- > F-S Tree
  - > Component parts
  - > Functional parts
- > Conclusion of functional analysis

## History

- **Karl von Drais (1818)**
  - > First invented ---> two wheels car in Germany
  - > A wooden frame supported by two in-line wheels












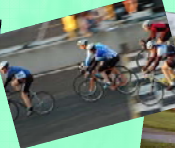




## History

1818 drais ine Karl von Drais Germany	1830 two-wheel velocipede Thomas MacCall Scotland	1860 pedal bicycle Pierre Michaux France	1870 high wheel bicycle James Starley France
1885 safety bicycle John Kemp Starley England	1960s racing bike USA	Mid 1970s mountain bike USA	

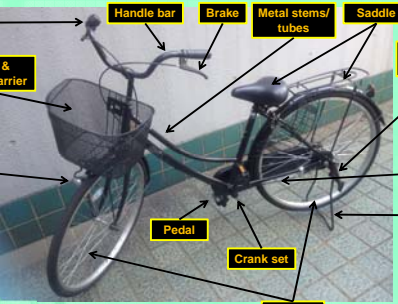




## Usage

- Daily life: commutation
- Work: delivery
- Racing
- Entertainment: Artistic cycling

## Components



- Bell
- Handle bar
- Brake
- Metal stems/ tubes
- Saddle
- Basket & luggage carrier
- Frame mounted lock
- Chain
- Light
- Pedal
- Crank set
- Wheels
- Kickstand

