

# How to Bike Inventory

## Examples and discussion

### Outline

- Inventory goals
- Bike Identification
  - Numbers, tags, check sheets
- Inventory organization
  - Implicit
  - Paperwork
    - Binder
    - Check sheets
  - Computerized
  - Hybrid
    - computer + paper



### Inventory Goals

- Know the status of each bike in the shop
- Record key information of each bike (price, work completed...)
- Find bikes based on characteristics and use
- Know the physical location of the bikes
- Report statistics on incoming and outgoing bikes

### Bike Identification

- Assigning numbers
  - Pre-printed numbers guarantees the same # can't be used twice (as long as only printed once).
  - Label printer with software to increment the number & never print twice
  - Re-usable tags that are numbered
- Color tags
  - Color corresponds to category/bike assignment (available, Earn-a-bike)

# Bike & Location Identification

## Bike ID Labels

- Unique 5 digit number

## Hook parking spots

- Two rows of hooks
- Each hook has a number



Bike ID Label



Colored Tag



Parking hook numbers

# Generating Bike Labels

## Label Stock

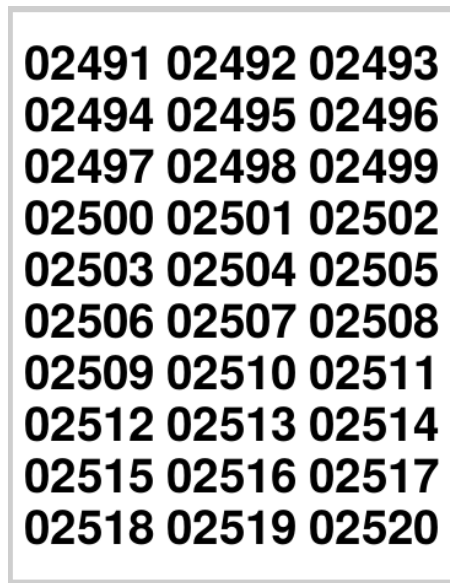
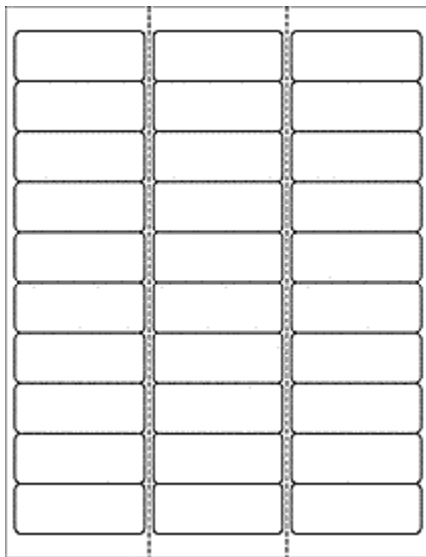
- Weatherproof Polyester 2.625" x 1"
- <http://www.onlinelabels.com/Products/OL875LP.htm>

## Software to generate PDFs of labels to print

- Can use a mail-merge
  - Keep track of the printed numbers in a spreadsheet
- Custom software that connects to a database
  - Command line linux program
  - [https://github.com/zflat/label\\_gen-free\\_ride](https://github.com/zflat/label_gen-free_ride)

```
File Edit View Terminal Tabs Help
william@bluetop:~/proj/label_gen-free_ride$ bundle exec script/app --help
Commands:
  app confirm_printed MAX_NUMBER # Update the highest number printed with MAX_NUMBER
  app current_max_number         # Get the value of the max number that has been confirmed ...
  app gen_labels N               # Generates the next N pages of labels as a PDF
  app gen_pages N               # Generates the next N pages of labels as a PDF
  app help [COMMAND]           # Describe available commands or one specific command

william@bluetop:~/proj/label_gen-free_ride$ bundle exec script/app current_max_number
2490
william@bluetop:~/proj/label_gen-free_ride$
```



## Commercial Label Printer:


- Has software to generate unique IDs
- Prints on robust label stock



Date Arrived:  
 \_\_\_\_ / \_\_\_\_ / \_\_\_\_  
 YYYY MM DD

# BIKE INFO SHEET

Bike ID  
 \_\_\_\_\_

	Seat Tube C-T		Mfgr.	
	Top Tube C-T		Model	
	Wheel Size		Quality	
	Color		Condition	

As-is \$ \_\_\_\_\_  
 \$ \_\_\_\_\_  
 Initials \_\_\_\_\_

DATE	NOTES
------	-------

## BIKE LOCATION LOG

Bike Info Sheet

DATE	LOCATION

Bike Info Sheet


Date Departed:  
 \_\_\_\_ / \_\_\_\_ / \_\_\_\_  
 YYYY MM DD

STAFF INITIALS: \_\_\_\_\_

FINAL VALUE: \$ \_\_\_\_\_

DEPARTURE INFO

<b>STATUS</b>	EAB	FFS	As-is	Scrap	?	Other (specify)

Move this and all related pages to the departed bikes binder. Keep pages in reverse chronological order.

Sticker?

# Project Page

Bike ID	
---------	--

Status	Date	Staff Initials
Repair in progress		
Repair complete		
Passed safety inspection		
Abandoned & freed		

Notes:


Inspection Checklist		
Initial	Final	
		Bottom bracket is adjusted properly
		Headset is adjusted properly
		Front hub is adjusted properly
		Front wheel is true
		Rear hub is adjusted properly
		Rear wheel is true
		Front shifter is adjusted properly
		Rear shifter is adjusted properly
		Cables slide smoothly
		Brake pads parallel to rims surface
		Brake levers can't touch the handlebars
		Stem bolt is tight
		Crank arm bolts are tight
		Quick release or axle bolts are tight
		Seat bolt is tight
		Tires have appropriate pressure
		Chain is lubed
		Free Ride! Sticker
		Bike is roadworthy and ready for sale
Initials	Initials	
Date	Date	



# Computer Web Application

## FreeRide "BikeBinder"

- List bikes; view bike page; add bikes; assign bikes; depart bikes
- Demo at <http://frbp.org/> Username: admin@frbp.org, Password: bikebike

 Bikes ▾ Search by Bike # or Hook #

[Sign in](#)


Available **Assigned** Departed All Bikes

Show 10 entries

← Previous 1 2 3 4 5 Next →

Showing 1 to 10 of 50 entries

Number	Status	Hook	Color	Brand	Seat Tube	Wheel Size
00005	Available	02H	Purple	Serotta	16.00 in (40.64 cm)	mm
00009	Available	n/a	Red	Motobecane	17.00 in (43.18 cm)	mm
00011	Available	n/a	Brown	EPX	17.00 in (43.18 cm)	mm
00024	Available	03L	Maroon	Torker	18.00 in (45.72 cm)	mm
00031	Available	n/a	Silver	da Vinci Designs	17.00 in (43.18 cm)	mm
00041	Available	04H	Pink	Motobecane	15.00 in (38.10 cm)	mm
00054	Available	n/a	Blue	Opus	14.00 in (35.56 cm)	mm
00056	Available	n/a	Brown	Litespeed	20.00 in (50.80 cm)	mm

 Bikes ▾  Search by Bike # or Hook #

[Bike Information](#)  
[Brand And Model](#)  
[Size And Measurements](#)  
[Quality](#)  
[Condition](#)  
[Sales Price Value](#)  
[Create](#)

Signed in as staff@freeridepgh.org. [Sign out](#)

### Bike Information

Number

Color

### Brand And Model

Lookup

Create Brand

Model

### Size And Measurements

 Bikes ▾ Search by Bike # or Hook #

[Sign in](#)

### Location

No hook is assigned.

### Assignment

This bike is available

### Arrival/Departure

#### Arrived

2014-08-24

#### Departed

n/a

Bike Info **History**

## Bike 00058

**Manufacturer:** Pinarello  
**Model:** Xtrack Madison frameset  
**Color:** Blue  
**Wheel Size:** mm  
**Seat tube height:** 20.00 in (50.80 cm)  
**Top tube length:** 20.50 in (52.07 cm)  
**Quality:** C  
**Condition:** C

# Computer Web Application

## Velocipede "BikeShed" Desktop version

Shop ID	Serial number	Brand	Model	Frame Color	Style	Seat Tube (in)	Top Tube (in)	Wheel Size	Value	Condition	Purpose	Owner
31	208375158...	Felt	Small Rubb...	2DD88...	HYBRID	2	2	37-406   20...	7	GOOD	BUILDBIKE	
32	344162174...	Land Shark	Intelligent P...	0B8EE9...	OTHER	11	22	32-369   16...	67	POOR	BUILDBIKE	
33	814308246...	Medici	Small Gran...	DCA395...	MOUNTAIN	4	12	28-584   26...	106	FAIR	STORAGE	
34	122642155...	BMC	Sleek Con...	3E0784...	MOUNTAIN	6	5	26x1,9   MTB	52	UNDETER...	PARTS	
35	412425307...	Pace	Awesome ...	C43632...	HYBRID	14	22	57-559   26...	60	POOR	BUILDBIKE	
36	280003258...	Simoncini	Sleek Cott...	275832...	HYBRID	4	8	47-406   20...	10	GOOD	STORAGE	
37	665585570...	HP Velotec...	Rustic Rub...	C6B23F...	OTHER	17	1	32-630   27...	108	FAIR	BUILDBIKE	
38	135627191...	Rocky Mo...	Ergonomic ...	09B1D2...	MOUNTAIN	20	19	47-559   26...	54	GOOD	PARTS	
39	941283178...	Trailmate	Gorgeous ...	4F3446...	ROAD	23	20	32-369   16...	17	EXCELLENT	PARTS	
40	694094986...	Radius	Rustic Gra...	65515B...	HYBRID	19	15	37-584   26...	141	GOOD	SALE	

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Done	Task	Notes
<input type="checkbox"/>	Regrease Back Wheel	
<input type="checkbox"/>	Regrease Front Wheel	
<input type="checkbox"/>	Tru wheel	
<input type="checkbox"/>	Repack bottom bracket	
<input type="checkbox"/>	Repack steering post	

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## Velocipede "BikeShed" mobile version

Signed in successfully.

### Dashboard

- Add Time Entry
- View Timesheet
- View Your Bike
- Desktop View
- Logout

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Home

### Add Bike

Shop ID

Select a brand

Model

Serial Number

RD MTN HYB OTHER

Select a wheel size

Poor Fair Good Excellent

Seat Tube (cm)

Add Bike

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Home

### 1: Powercurve Ergonomic Cotton Hat

Type ROAD

Wheel Size 32-369 | 16x1 1/4 | Moulton

Condition GOOD

Seat Tube (cm) 14.0

Purpose UNDETERMINED

Value 126.0

Color CB61FC

View Checklist

© BikeShed 2014

# BikeBinder domain model

