# FIELD GUIDE

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## Habitats
- Original
- Crab

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**Nano Collectors:** note that we have found the following sites invaluable during our research and recommend with a parent’s approval that you visit them...

www.hexbug.com/nano and www.handandstars.com

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**NEWTON Identification steps**
Collector: there are (4) steps one should use to identify and categorize a Newton Nano specimen:

1. **Outer body shape**
   - Usually allows a view of the Nano specimen’s inner workings...also can be of varying colors.

2. **Inner body shape**
   - Usually allows a view of the Nano specimen’s inner workings...also can be of varying colors.
   - There are theories that some of the markings may have meaning...

3. **Unique markings**
   - Unique markings will vary with series.

4. **Color**
   - Example specimen: NEWTON>gravity>red

**NEWTON Nano swarm locations**
Data is still being gathered.

**NEWTON series / gravity**
Collector: there are (5) known varieties within this series.

- **NEWTON gravity / red**
  - Uncommon sighting
  - 3,500 Lumens

- **NEWTON gravity / green**
  - Common sighting
  - 2,000 Lumens

- **NEWTON gravity / blue**
  - Less common sighting
  - 2,500 Lumens

- **NEWTON gravity / orange**
  - Rare sighting
  - 5,000 Lumens

- **NEWTON gravity / purple**
  - Very rare sighting
  - 10,000 Lumens

**NEWTON mutation**

- **NEWTON mutation black / red**
  - Extremely rare sighting
  - 15,000 Lumens

- **NEWTON mutation blue / red**
  - Extremely rare sighting
  - 12,500 Lumens

**Habitata / mutations**
Collector: there are (2) known mutations within this series.

- **NEWTON mutation outer/inner body shape unique markings**
  - NEWTON mutation outer/inner body shape unique markings
  - 18,000 Lumens

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NEWTON series / orbit

Collector: there are (5) known varieties within this series.

- **NEWTON series** Orbit / black
  - Outer/inner body shape
  - Unique markings
  - Common sighting 2,500 Lumens

- **NEWTON series** Orbit / blue
  - Outer/inner body shape
  - Unique markings
  - Less common sighting 2,500 Lumens

- **NEWTON series** Orbit / green
  - Outer/inner body shape
  - Unique markings
  - Very rare sighting 10,000 Lumens

- **NEWTON series** Orbit / red
  - Outer/inner body shape
  - Unique markings
  - Rare sighting 5,000 Lumens

- **NEWTON series** Orbit / purple
  - Outer/inner body shape
  - Unique markings
  - Rare sighting 5,000 Lumens

Hollow cylinders have been found in various areas of Texas. We suspect the nanos are using these tubes for transporting themselves.

NEWTON series / motion

Collector: there are (5) known varieties within this series.

- **NEWTON series** Motion / black
  - Outer/inner body shape
  - Unique markings
  - Common sighting 2,000 Lumens

- **NEWTON series** Motion / grey
  - Outer/inner body shape
  - Unique markings
  - Less common sighting 2,500 Lumens

- **NEWTON series** Motion / teal
  - Outer/inner body shape
  - Unique markings
  - Very rare sighting 10,000 Lumens

- **NEWTON series** Motion / pink
  - Outer/inner body shape
  - Unique markings
  - Rare sighting 5,000 Lumens

- **NEWTON series** Motion / yellow
  - Outer/inner body shape
  - Unique markings
  - Very rare sighting 10,000 Lumens
NEWTON series / calculus
Collector: there are (5) known varieties within this series.

NEWTON series / refraction
Collector: there are (5) known varieties within this series.

Refraction is the change in direction of a wave due to a change in its speed.
A zip-line (also known as a flying fox, fastie slide, zip wire, aerial runway, aerial rope slide, death slide or tyrolean crossing) consists of a pulley suspended on a cable mounted on an incline. It is designed to enable a user propelled by gravity to travel from the top to the bottom of the inclined cable, usually made of stainless steel, by holding on or attaching to the freely moving pulley. Zip-lines come in many forms, most often used as a means of entertainment.

History

The zip-line is not a recent invention. It has been used as a transportation method in some mountainous countries. In some remote areas in China, zip lines serve the purposes of bridges across rivers. Referred to as “an inclined strong”, one appears in The Invisible Man by H.G. Wells, published in 1897, as part of a Whit-Monday fair.
The Nanos seem to be drawn to the spiral. Are they simply attracted to the bright orange color? Do they prefer the spiral over the track? Does this show some sign of INTELLIGENCE?

We were excited to witness several Nanos congregating in a single cell together. Could they be communicating?

In nanos have a competitive nature? These red and blue nano mutations challenge one another on a racetrack!

Do nanos have a competitive nature? These red and blue nano mutations challenge one another on a racetrack!
**Collector's case / mutation**
Collector: there is (1) known mutation in this case.

**The Hive / mutation**
Collector: there is (1) known mutation in this set.

**Construction Habitat / mutations**
Collector: there are (2) known mutations in this set.

**Construction Elevation / mutations**
Collector: there are (2) known mutations in this set.

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Do these creatures require rest? Relaxation? Is this some sort of resting area? We are still researching this new discovery!

This appears to be some kind of fitness center. Here they exhibit physical activity by sprinting up and down a ramp, weaving through peg mazes, and interacting with obstacles. Are they training for something? Extremely Rare Sighting 12,500 Lumens

Field equipment: We can only speculate at this time that these structures are used for Nano recreation purposes.
GALILEO Identification steps

Collector: there are (5) steps one should use to identify and categorize a Galileo Nano specimen:

1. **Outer body shape**
   - Usually allows a view of the Nano specimen's inner workings...also can be of varying colors.

2. **Inner body shape**
   - Usually allows a view of the Nano specimen's inner workings...also can be of varying colors.

3. **Unique markings**
   - There are theories that some of the markings may have meaning...

4. **Color**
   - Example specimen: GALILEO: astronomy: black

5. **Glow in the dark**
   - Example specimen: GALILEO: astronomy: black

GALILEO Nano swarm locations

DATA IS STILL BEING GATHERED.

**Night Sightings**

Date: August 5, 2010
Time: 1:48 am
Location: Laredo, Texas
Nano colonies consist of a series of underground chambers, connected to each other by small tunnels. Food source is undetermined at this time though they seem to come out at night ONLY (perhaps to forage???)

NATURE FACT

In real creatures, Bioluminescence is a form of luminescence, or "cold light" emission; less than 20% of the light generates thermal radiation.

www.hexbug.com/nano and www.handandstars.com
Glow in the Dark
Starter / mutation
Collector: there is (1) known mutation in this set

GALILEO mutation
GID Starter / black
Extremely Rare Sighting
12,500 Lumens

Glow in the Dark
Habitat / mutations

GALILEO mutation
GID Habitat / white
Extremely Rare Sighting
12,500 Lumens

Extremely Rare Sighting
12,500 Lumens

GALILEO mutation
GID Habitat / blue
Extremely Rare Sighting
12,500 Lumens

Glow in the Dark
Elevation / mutations
Collector: there are (2) known mutations in this set

GALILEO mutation
GID Elevation / white
Extremely Rare Sighting
12,500 Lumens

GALILEO mutation
GID Elevation / blue
Extremely Rare Sighting
12,500 Lumens

Galileo
mutation
outer/inner body shape
unique markings

Galileo
mutation
outer/inner body shape
unique markings

12,500 Lumens
12,500 Lumens
12,500 Lumens

www.hexbug.com/nano and www.handandstars.com

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**SPECIAL Editions / collectible EASTER Edition**

**HALLOWEEN / mutations**
Collector: there are (2) coffins and (1) known mutation.

- Holiday mutation
- outer/inner body shape
- unique markings

More clips found attached to Nanos. Are they disguising or decorating?

**HOLIDAY / mutations**
Collector: there are (2) known mutations in these ornaments.

- Holiday mutation
- outer/inner body shape
- unique markings

- Holiday mutation
- Holiday / green
- Extremely Rare Sighting
- 12,000 Lumens

- Holiday mutation
- Holiday / red
- Extremely Rare Sighting
- 12,000 Lumens

**HEXBUG Larva**
Data Complete

Researchers have spotted other creatures that resemble some sort of grub worm.

We decided to simply identify this species as “larva.”

**HEXBUG Spider**
Data Complete

Arachnids are a class (Arachnida) of joint-legged invertebrate animals in the subphylum Chelicerata.

Data Complete

While searching caves off the coast of Africa, we noticed odd bugs breaking up through the darkness. Upon closer inspection we realized the lights were coming from brightly colored spider-like creatures.

It seemed these “spiders” had rolled out of their own web. They were being controlled by something or someone.

**FIELD GUIDE**

www.hexbug.com/nano and www.handandstars.com
A bug that races around, changing direction if it touches something in its path has been identified as the HEXBUG Ant.

INCHWORMS have a voracious appetite and spend their entire life feeding. Although the majority are herbivorous, there is a species that is carnivorous. Carnivorous inchworms are indigenous to Hawaii.

ANTS smell and feel with their antennae. An ant's sense of smell rivals that of a dog.

If it senses something in its path, it will back up and change direction. Is this a self-defense mechanism? Loud noises startled the bug and made it run the other way! Does it have organs sensitive to sound?

One of our interns stumbled upon this Crab-like creature while on vacation on South Padre Island! As of today, we have found five different colors of this species.

If you could run as fast for your size as an ant can, you could run as fast as a racehorse.

Data Complete

www.hexbug.com