



# A Web Future of Computation

Crowdsourcing. Social Machines. Human computation.  
Co-construction Made Real

# Galaxy Zoo

- Tens of thousands of volunteers classify galaxies from Hubble

EN · Galaxy Zoo is a ZOO NIVERSE project ...just like MOON ZOO

## GALAXY ZOO HUBBLE

Home The Story So Far The Science How To Take Part Classify Galaxies Forum Zoo Media Blog FAQ Contact Us



**Welcome to Galaxy Zoo, where you can help astronomers explore the Universe**

Galaxy Zoo: Hubble uses gorgeous imagery of hundreds of thousands of galaxies drawn from NASA's Hubble Space Telescope archive. To understand how these galaxies, and our own, formed we need your help to classify them according to their shapes — a task at which your brain is better than even the most advanced computer. If you're quick, you may even be the first person in history to see each of the galaxies you're asked to classify.

More than 250,000 people have taken part in Galaxy Zoo so far, producing a wealth of valuable data and sending telescopes on Earth and in space chasing after their discoveries. The images used in Galaxy Zoo: Hubble are more detailed and beautiful than ever, and will allow us to look deeper into the Universe than ever before. To begin exploring, click the 'How To Take Part' link above, or read [The Story So Far](#) to find out what Galaxy Zoo has achieved to date.

Thanks for your help, and happy classifying.

*The Galaxy Zoo team.*

**Classifier Log In**

Click here to log in

- Register
- Forgotten Password?

**Latest News**

**Galaxy Zoo Supernova Paper Submitted!**

by Mark - Oct 01, 2010

I'm pleased to let you know that the first Galaxy Zoo Supernova paper has been submitted to Monthly Notices of the RAS.

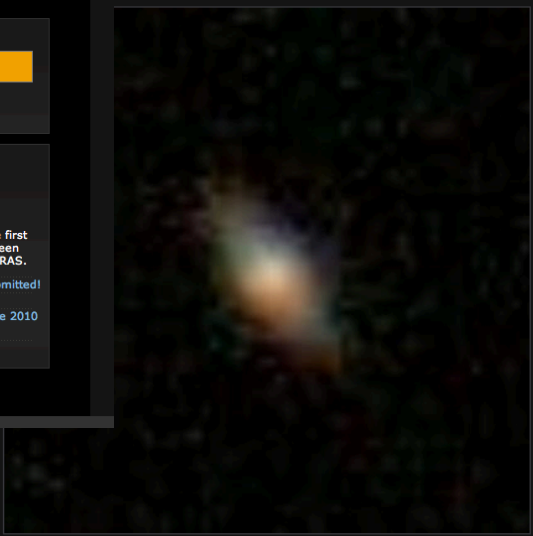
- Galaxy Zoo Supernova Paper Submitted!
- Win a Signed Comic Book
- Galaxy Zoo gets highlighted by the 2010 Decadal Survey
- Zoo 1 data set free

**Classify galaxies**

Answer the question below using the buttons provided.

**Is the galaxy simply smooth and rounded, with no sign of a disk?**

Smooth  Features or disk  Star or artifact



# The ESP Game

gwap ESP Game Tag a Tune Verbosity Squigl Matchin FlipIt PopVideo

**ESP Game**  
Concentrate...

Top Scores

	Today	This Month	All Time
1	lubeckm		31 M
2	greggig	5 209 K	
3	Catwoman	4 376 K	
4	pook	3 283 K	
5	knowitall	2 540 K	

Got it, Let's Play!

View Instructions

**How to Play**

- 1 You and a partner see the same image.
- 2 Each of you must guess what words your partner is typing.

- Carnegie Mellon
- Volunteers classify pictures

gwap news about contact

**We make games with a purpose.**

- 1 You play the game
- 2 Computers get smarter
- 3 Everyone benefits!

When you play a game at Gwap, you aren't just having fun. You're helping the world become a better place. By playing our games, you're training computers to solve problems for humans all over the world.

Let's take the ESP Game for example. You and a partner see the same image and are asked to type in a tag for it. When you agree on a tag, you move on and are awarded points. After just a minute of play, you've agreed on six or seven tags.

We record those six or seven tags and associate them with the images.

Now a search engine will have a better idea of what's in those images.

# reCAPTCHA

**reCAPTCHA™**

- WHAT IS reCAPTCHA
- GET reCAPTCHA
- PROTECT YOUR EMAIL
- MY ACCOUNT
- RESOURCES: DOCS & PLUGINS

**reCAPTCHA IS A FREE ANTI-BOT SERVICE THAT HELPS DIGITIZE BOOKS.**

steamboat train, from New  
this **morning** ran off the track  
New-London. Four cars plunged

Type the two words:

reCAPTCHA™  
stop spam.  
read books.

→ **LEARN HOW reCAPTCHA WORKS**

**USE reCAPTCHA ON YOUR SITE**

- STRONG SECURITY**
- ACCESSIBLE TO BLIND USERS**
- 30+ MILLION SERVED DAILY**

**NEW** See how accurate reCAPTCHA is at digitizing content!

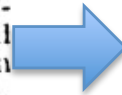
[Blog](#) | [About Us](#) | [Contact](#) | [FAQs](#) | [Terms](#) | [Privacy](#)  
© 2010 Google, all rights reserved.

- Volunteers digitize 18,000,000 new words per day

# reCAPTCHA in action

## Original Text

The New-York State Yacht Squadron, on its annual cruise to Newport, came into the harbor yesterday afternoon. The following are the names of the boats that came to anchor here: *Jessie, Geraldine, Evelyn, Annie, Mannering, Julia, Bonita, Magic, Wildgeon, Rambler, Fleur-de-Lis, Henrietta, Sea-Drift* and *Maria*, with the steamer *America* as a tender. On anchoring, each boat fired a gun, according to custom. The reports were heard distinctly in the city, causing considerable inquiry as to "what was up," and quite a number of sanguine individuals came into our office to inquire if the guns were not annunciatory signals of the successful laying of the Atlantic Cable. We invariably replied in the negative. The squadron will leave to-day for Newport. The yachts *Washington* and *Rambler*, of this city, start with it, with parties of New-Haven people.



## Using OCR (Optical Character Recognition)

'letz-1- rrk fit: 1' . on its to Vc ,rt, cann into tlm yc H\_  
tcr,la, .n. 'l l; , arc ti:( h of thc 1",ats that to ltc rc: ,; ,  
l; , l: rel!;n. tani., , ./olio, lJuteilu, . 1!i./\_ ;lr"n. liam!  
Jr.r. F'l,nr\_.Z..\_%i;;, , , : rt-lrn: am/ tf.rr.i.; t?m steamer  
as a tr nW r. Uu ,tin;t, c ac?1 1",at firm/ a t;nn,  
accor.liu; to .t rn. 'Cl.w r. wu ru lm:nui MistinW /y in  
u;th, -. ink ;;k as to "what w ax 1111, :111(l vle:iR a  
of ;; (,am( into, mnr r-, tm if tlm wo r( uu.i n:' of t?u :  
la?:lv. \ 'c : ol in thc , ucr:atic , , Tlau ;; will h:aw tu-li.r  
\. '1'lm yap?tts ll ,,n an,/ l, ,rr:l. r, (,t tf,is r:ity, start with  
it, with lu:rtic: ol \ 1- e:l.k.

## Using reCAPTCHA

The New-York State yacht Squadron, on its annual cruise to Newport came into the harbor yesterday afternoon. The following are the names of the boats that came to anchor here: Jessie, gera loliv erelun Annie, Mannering, Julia, Bonita, Magic wut, Rambler, floumblic, Henrietta, Sea-Drift and Maria, with the steamer America as a tender. On anchoring each boat fired a gun, according to custom. The reports were heard distinctly in the city, causing considerable inquiry as to "what was up," and quite a number of sanguine individuals came into our office to inquire if the guns were not annunciatory signals of the successful laying of the Atlantic Cable. We invariably replied in the negative. The squadron will leave to-day for Newport. The yachts Washington and buub r of this city, start with it, with parties of New Haven people.



# Citizen Journalism

Page 36 of David Wright's Incidental Expenses Provision 2007/08

This document has 138 pages (see all)

← Previous | Next →

**Incidental Expenses Provision/Staffing Allowance**  
**Direct payment of suppliers**

12 DEC 2007 Page 1 of 2

**When to use this form** Use this form to ask us to pay your suppliers for goods and services incurred on your Parliamentary duties.

**About filling in this form** For details of costs you can claim for, see Green Book section 5.13.1.  
 If you have any doubt about whether you can claim for a cost, please call 020 7219 1340.

**Your details**

Name: DAVID WRIGHT  
 Constituency: TELFORD

**Office use only**

Costs: [REDACTED]  
 Susp/Rec ID: [REDACTED]

**Claim details**

Please ensure your claim totals more than £100 - this will enable us to process your claim more promptly.  
 any claims for petty cash do not exceed £250 per month  
 you attach all supplier invoices.

You must specify the Incidental Expenses Provision for costs that include office and surgery accommodation, equipment and supplies, communication and travel.  
 You can specify the Incidental Expenses Provision or the Staffing Allowance for costs that include work commissioned or bought in services.

Date of claim: 11, 12, 07  
 Allowance year: 07, 08

Item	Incidental Expenses Provision claims		Office use only	
	Suppliers	Amount	Allow or Rec code	Supplier ID / Itzp' Cat 5
Item 1	<u>020 RANER</u>	<u>£ 89 : 26 p</u>	[REDACTED]	[REDACTED]
Item 2	<u>cl</u>	<u>£ 55 : 65 p</u>	[REDACTED]	[REDACTED]
Item 3		£ : p	[REDACTED]	[REDACTED]
Item 4		£ : p	[REDACTED]	[REDACTED]
Item 5		£ : p	[REDACTED]	[REDACTED]
Total		<u>£ 144 : 91 p</u>		

Show details continued on page 2

What kind of page is this?

**Claim**  
An expense form

**Proof**  
Receipt, invoice or purchase order

**Blank**  
Nothing to see here

**Other**  
Something we haven't thought of

Is this page interesting? Should we investigate further?

**Not interesting**  
e.g. a coversheet or stationery

**Interesting**  
It's significant expenses data

**Interesting but known**  
e.g. it's a duckhouse

**Investigate this!**  
I would like to know more

[Go to next unreviewed page](#)

Enter individual line items here

You need to indicate if this page contains **claims** or **proofs** before you can add line items.

## • MPs expenses

### Investigate your MP's expenses

Join us in digging through the documents of MPs' expenses to identify individual claims, or documents that you think merit further investigation. You can work through your own MP's expenses, or just hit the button below to start reviewing. (Update, Fri pm: we now have a virtually complete set of expenses documents so you should be able to find your MP's) Already created an account? [Log in here.](#)

We have **458,832** pages of documents. **27,202** of you have reviewed **221,743** of them. Only **237,089** to go...

[Start reviewing](#)

Please read our [privacy policy](#) to find out how we use your data. You must also read our [terms of service](#). By reviewing pages, you are agreeing that you have read the terms of service, and that you agree to them.

Investigate your own MP's

Enter your postcode:  [Find you](#)

Or search by MP name or constitu:  [Search](#)

Thanks everyone for your valiant efforts so far.

You're amply justifying our hope that many hands can make light work of the thousands of documents released by Parliament in relation to MPs' expenses. We, and others - perhaps you? - are still using these tools to review each document, decide whether it contains interesting information, and extract the key facts.

Some pages will be covering letters, or claim forms for office stationery. But somewhere in here is the receipt for a duck island. And who knows what else may turn up. If you find something which you think needs further attention, simply hit the button marked "investigate this!" and we'll

- Most line items added (last 20)
- anon-27201  
anon-27202  
anon-27199
- Most pages reviewed (last 20)

#### How to get involved:

- Step 1: Find a document
- Step 2: Decide what kind of thing it is and whether it's interesting
- Step 3: Copy out any individual entries
- Step 4: Make any specific observations about why a claim deserves further scrutiny

Examples of things to look out for: food bills, repeated claims for less than £250 (the claims not backed up by a receipt), and rejected claims.

All the MPs' records are on there now - so let us know what you find.

DATA: what we've learned from your work so far - updated

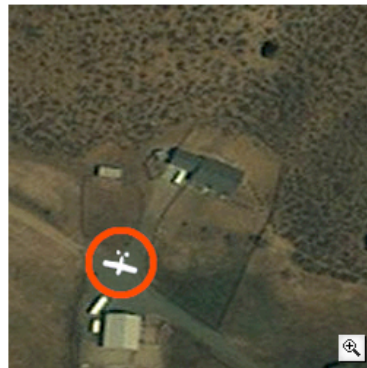
Some of the best individual discoveries.

# Emergency Response

SOFTWARE : WEB SERVICES

## 50,000 Volunteers Join Distributed Search for Steve Fossett

By Steve Friess 09.11.07



Here's an example of the size object crowdsource searchers are seeking. The white plane shown above (30-pixel wingspan by 21-pixel length) is approximately the size of Fossett's plane. Image: Courtesy of Amazon Mechanical Turk

Up to 50,000 people are hunting for missing aviator Steve Fossett, in a distributed search using satellite images and Amazon's Mechanical Turk.

The army of online volunteers is [scrutinizing satellite images](#) that show small chunks of the 17,000-square-mile region where Fossett's plane is thought to have crashed.

The "distributed search" uses satellite images from [DigitalGlobe](#), the company that provides images for [Google Earth](#).

The helpers are issued squares that represent 278-foot-square pieces of the search area. If they see something worth closer study, participants flag it. Since each square is issued to 10 different people, squares that are flagged by several volunteers are given greater scrutiny.

One of the heartiest of participants is 25-year-old software designer Andy Chantrill of Castle Donington, England, who worked on it for 13 straight hours on Monday and says he's put in 30 total hours examining about 5,000

squares.

"I've tagged about a dozen things that I thought deserved closer inspection," said Chantrill, who describes himself as a Fossett admirer. "Whether they were or not, I don't know and will perhaps never know, but it's the group effort that counts. Collaborative efforts like these can be extremely powerful tools."

Amazon has a policy of not releasing the number of participants in Mechanical Turk projects. But Wired News has learned that up to 50,000 people have joined the distributed search since it began on Friday.

- Using Amazon's Mechanical Turk to coordinate 50,000 volunteers

# Amazon Mechanical Turk

## Mechanical Turk is a marketplace for work.

We give businesses and developers access to an on-demand, scalable workforce. Workers select from thousands of tasks and work whenever it's convenient.

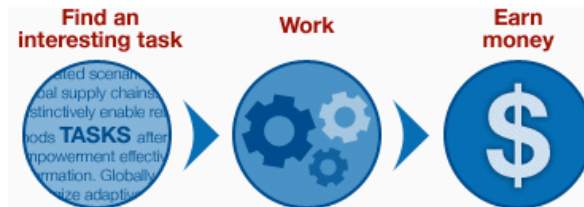
**133,455 HITs** available. [View them now.](#)

## Make Money by working on HITs

HITs - *Human Intelligence Tasks* - are individual tasks that you work on. [Find HITs now.](#)

### As a Mechanical Turk Worker you:

- Can work from home
- Choose your own work hours
- Get paid for doing good work



[Find HITs Now](#)

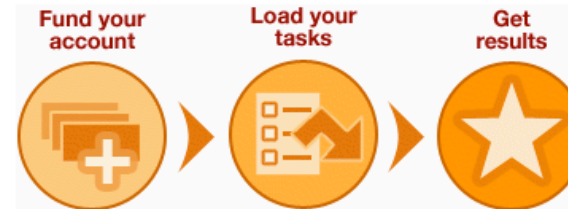
or [learn more about being a Worker](#)

## Get Results from Mechanical Turk Workers

Ask workers to complete HITs - *Human Intelligence Tasks* - and get results using Mechanical Turk. [Register Now](#)

### As a Mechanical Turk Requester you:

- Have access to a global, on-demand, 24 x 7 workforce
- Get thousands of HITs completed in minutes
- Pay only when you're satisfied with the results



[Get Started](#)



# Emergency Response

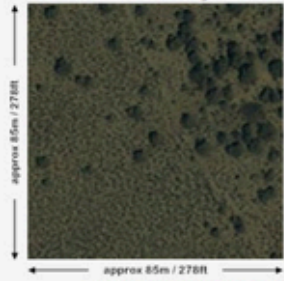
TECH BIZ : IT 

## Online Fossett Searchers Ask, Was It Worth It?

By Steve Friess  11.06.07

**Steve Fossett Missing: Help find him by searching satellite imagery**  
New examples and instructions! If this is your first time working on this task, please carefully review the instructions further down.


**Review This Image**



approx 85m / 276m

approx 85m / 276m

**Example**



Example plane crash site

**Need More Detail?**

To view in Google Earth, load the KML file below then cut and paste:

**38.290787,-118.732681**

in the "Fly To" box found at the top left corner of the application.

For a similar viewing experience in Google Earth to the above image, navigate to an altitude of roughly 1,500 feet.

**IMPORTANT:** Please ensure that you've loaded the following KML file below in Google Earth before navigating to the co-ordinates. Otherwise, you risk looking at old and irrelevant images.

KML file for Google Earth Searching:  
[http://s3.amazonaws.com/Fossett-GE4/GeoEye\\_4/index.kml](http://s3.amazonaws.com/Fossett-GE4/GeoEye_4/index.kml)

(c) This imagery is copyright GeoEye. Example of an airplane and an airplane crash showing the size of object being searched for.

**Amazon's Mechanical Turk presented 50,000 volunteers with aerial photos and satellite images like these, asking them to flag anything that looked like a plane-crash site. (Click image to enlarge.)**  
*Screenshot: Courtesy of Amazon.com*

- Not always successful!

Looking back, Diana Francis says she should have known it would be a big waste of time. She sat for hours each day in her husband's home office in Houston scouring little digital snapshots of the Nevada desert on Amazon.com, in hopes that she'd help locate vanished millionaire aviator Steve Fossett.

Finally, though, she decided the exercise was tedious and unproductive.

"In the early days, it sounded like a good idea," Ryan continues. "In hindsight, I wish it hadn't been there, because it didn't produce a darn thing that was productive except for being a giant black hole for energy, time and resources. There may come a day when this technology is capable of doing what it says it can deliver, but boy, that's not now."

# Social Computing?



- Who is working for whom?

