

CLEF 2011 - Semi-automated Artificial Intelligence to assist editing: An opportunity for Wikimedia sites

To Aru Shiroi Neko
とある白い猫



What is Artificial Intelligence

- Artificial intelligence (AI)
 - Is a branch of computer science
 - Uses machines to process relationship of info
 - Without explicit programming
 - To predict how to handle future data
 - Grown in its use particularly in the past decade
 - Applications range from search engines to space exploration
 - You use it all the time probably without knowing
 - US Postal service
 - Online shopping suggestions

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What do I mean by Semi-automated Artificial Intelligence

- Wikimedia sites have relied on “crowdsourcing”
 - Wikimedia is growing much faster than the “crowd”
 - Wikimedians can use the help
 - Common “fear” in regards to automation
 - Skynet-phobia or bot takeover
 - Bot making mistakes
 - These points are fair
 - Initially (until confidence forms)
 - Program will give suggestions ONLY
 - Suggestions may be restricted to limited people
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CLEF: Cross-Language Evaluation Forum

- CLEF: Cross-Language Evaluation Forum
 - 19 - 22 September 2011, Amsterdam, Netherlands
 - 17 - 20 September 2012, Rome, Italy
- Artificial Intelligence classification tasks:
 - Text
 - Images
 - Text and Images
 - Audio
- <http://clef2011.org>
- <http://clef2012.org>



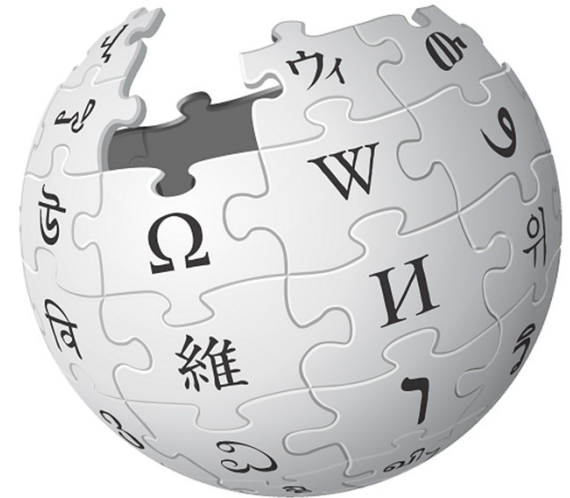


Free licenses

- Freely licensed
- Reusable, freely distributable
- Allows derivatives of any kind
- Commercially usable
- Used in very large projects like Wikipedia
- Used in research as demonstrated by ImageCLEF already
- Compels people to add to the existing repository of images



Wikipedia



- Statistical information will be posted here
-

Wikipedia – Proposed task 1: Copyright/Plagiarism detection

- **Classification task:**
 - Identify content copied to and from Wikipedia
 - Since the start this has remained to be a problem
 - Currently, tools such as Copyscape is used
 - Incorrectly identifiable as copyvio by tools like Copyscape
 - Make use of page histories to help determine
 - Detect inclusion of previously oversighted content
 - Only users with oversight access would be able to read the reports
 - **CLEF**
 - Similar track on PAN workshop of CLEF 2011
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Wikipedia – Proposed task 2: Author identification

- **Classification task:**
 - Sockpuppets
 - Returning users that are previously blocked
 - Meatpuppets & Lobbyists
 - Forum driven effort to introduce bias
 - List of blocks in regards to CAMERA is in light years
 - Political edits
 - US Congressional staff edits to Wikipedia
- **CLEF**
 - Similar track on PAN workshop of CLEF 2011

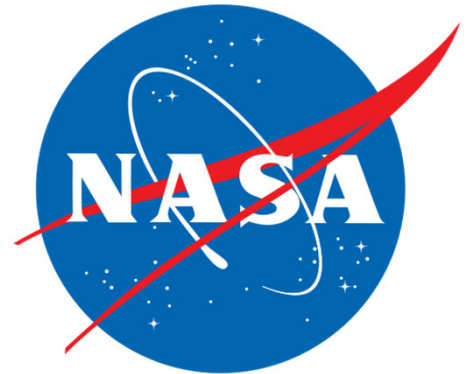
Wikipedia – Proposed task 3: Vandalism detection

- **Classification task:**
 - Identify Vandalism
 - Blanking, Gibberish, Sneaky
 - RC feed is full of these
 - Slander/Defamation
 - In other words: fact checking
 - John Seigenthaler controversy
 - Spam
 - Links (page rank boost)
 - Bot generated spam articles
 - **CLEF**
 - Similar track on PAN workshop of CLEF 2011
-



Wikipedia – Proposed task 4: Disambiguation & Category Identification

- Classification task:
 - People
 - Places
 - Abbreviations
 - Incorrectly linked pages
- Disambiguation pages can be...
 - Confusing
 - Less than helpful
 - Outright misleading
- CLEF
 - Nothing similar on CLEF, yet



Wikipedia – Proposed task 5: Correlate real life events

- **Source?**
 - News, Facebook, Google+, Twitter trends, Blogs
 - Wikipedia article on topic
 - Is it controversial? Sentiment analysis?
 - **Why?**
 - Assist admins by directing them to what is popular
 - Help identify content for ITN section of main page
 - Identify pages that can be updated
 - **CLEF**
 - Nothing similar on CLEF, yet
-



Wikisource – Proposed task: OCR for wiki

- **OCR - Object Character Recognition**
 - Technology already exists for raw text
 - OCR then correlate with Wikipedia
 - Break up, categorize, link and tag
 - Help establish copyright
 - Text known to have copyright?
 - Deleted before as a copyright violation?
- **CLEF**
 - Nothing on OCR



Wikipedia – Proposed task 1

- Copyright identification (detection of text copied from elsewhere)
 - Copyright identification (deleted images)
 - OCR for Wiki
 - Vandalism detection
 - Category identification
 - Automated content identification (what images and/or text contain)
 - Automated plant identification (images)
 - Disambiguation
 - Correlate real life events, twitter trends and etc. to determine potential articles of attention for administrators
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Wikimedia Commons

- Wikimedia Commons (or simply Commons) is an online repository of free-use

- Images,
- Audio,
- Video and
- Other files



- <http://commons.wikimedia.org>
-

Wikimedia Commons – Statistics 1

- midi 1,605 audio
- wav 4 audio
- ogg 142,193 audio/video
- mp4 1 audio/video
- gif 121,155 image/animation
- jpeg 9,400,557 image
- png 835,988 image
- svg+xml 485,356 images, vector
- tiff 64,121 image
- vnd.djvu 18,558 image
- x-xcf 263 image
- pdf 17,204 mixed text & images

Statistics by Benutzer:DaBPunkt

Wikimedia Commons – Statistics 2

- There are 103,112 galleries on Commons
- There are 11,085,316 files on Commons
- There are 1,259,001 deleted files on Commons
 - %11.342 of the existing files are deleted

Wikimedia Commons – Proposed task 1: Unwanted and/or controversial

- Examples of unwanted or controversial content

- Offensive/Vandalism

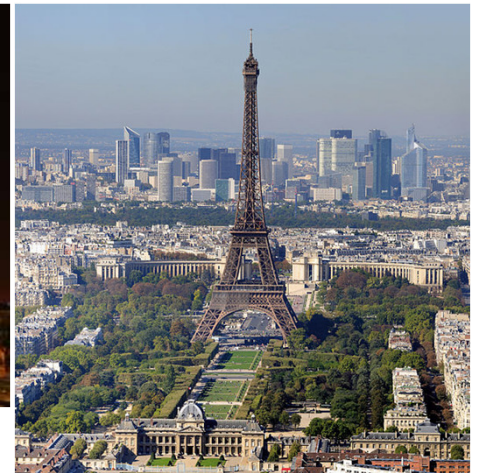
- Genitalia (I will spare you the images)
- Troll use of certain words or block of text within the images
- Troll use of certain symbols within images: ☠️ 🇺🇸 🏳️ ⚡️

- Controversial

- Nudity
- Violence

- Copyright violations

- Screenshots of movies
- Photos of sculptures (non-FOP)
- Special cases such as the Eiffel tower at night
- Other stuff used without permission (frequently)



Wikimedia Commons – Proposed task 2: Categorization - 1

Category:Topics

Language select: en

This meta category should only contain other categories. Files should either be in the relevant subcategory or in the parent category.

English: This category is the **global common root** of **the media files categorized by the topic**, similar to [en:Category:Main topic classifications](#). **All media files** should be categorized under this category for the sake of allowing others to find them by topic. For an explanation of Wikimedia's category system, see [Commons:Categories](#), [Help:Category](#) and [Category:CommonsRoot](#).

Subcategories

This category has the following 22 subcategories, out of 22 total.

- [\[+\] Categories by topic](#) (31 C, 1 F)

A

- [\[+\] Academia](#) (14 C, 66 F)
- [\[+\] Activities](#) (69 C, 3 F)

B

- [\[+\] Belief](#) (7 C, 4 F)
- [\[+\] Business](#) (46 C, 271 F)

C

- [\[+\] Causes](#) (6 C, 23 F)
- [\[+\] Communication](#) (42 C, 1 P, 165 F)
- [\[+\] Concepts](#) (7 C, 15 F)

C cont.

- [\[+\] Creatures](#) (7 C, 3 F)
- [\[+\] Culture](#) (50 C, 1 P, 238 F)

E

- [\[+\] Education](#) (30 C, 2 P, 890 F)
- [\[+\] Effects](#) (10 C, 11 F)

F

- [\[+\] Function](#) (5 C, 2 F)

H

- [\[+\] History](#) (59 C, 4 P, 438 F)

K

- [\[+\] Knowledge](#) (14 C, 33 F)

M

- [\[+\] Materials](#) (56 C, 45 F)

N

- [\[-\] Nature](#) (30 C, 113 F)
 - [\[+\] Nature by city](#) (17 C, 1 F)
 - [\[+\] Nature by country](#) (226 C)
 - [\[+\] Pronunciation of words relating to nature](#) (7 C)
 - [\[+\] Nature by region](#) (19 C)
 - [\[+\] Black and white photographs of nature](#) (4 C, 3 F)
 - [\[+\] Nature in art](#) (41 C, 26 F)
 - [\[+\] Colors in nature](#) (2 C)
 - [\[+\] Countryside](#) (10 C, 40 F)
 - [\[+\] Earth](#) (30 C, 8 P, 178 F)
 - [\[+\] Environment](#) (24 C, 1 P, 298 F)
 - [\[+\] Natural habitats](#) (7 C, 1 P, 2 F)
 - [\[+\] Landscapes](#) (31 C, 1 P, 201 F)
 - [\[+\] Matter](#) (9 C, 3 P, 4 F)
 - [\[+\] Natural monuments](#) (18 C, 63 F)
 - [\[+\] Natural history](#) (8 C, 56 F)
 - [\[x\] Naturmentoring](#) (5 F)
 - [\[+\] Nature at night](#) (2 C, 4 F)
 - [\[-\] Organisms](#) (15 C, 3 F)
 - [\[x\] Anaglyphs of organisms](#) (29 F)
 - [\[-\] Animals](#) (76 C, 3 P, 25 F)
 - [\[+\] Quality images of animals](#) (7 C, 31 F)
 - [\[+\] Categories by animal](#) (2 C)
 - [\[+\] Categories by zoo](#) (6 C)
 - [\[+\] Animals by color](#) (32 C, 1 F)
 - [\[-\] Animals by common named groups](#) (33 C)
 - [\[+\] Animals in art by common named groups](#) (9 C)
 - [\[+\] Badgers](#) (1 C, 4 F)
 - [\[+\] Birds](#) (40 C, 27 F)



Wikimedia Commons – Proposed task 2: Categorization - 2

Category:Birds

For the taxonomic classification of birds, see [Category:Aves](#)

 This is a main category or subcategory requiring frequent diffusion and maybe maintenance. As many pictures and media files as possible should be moved into the right subcategories. ([more information on categories](#))

[العربية](#) | [Boarisch](#) | [Беларуская \(тарашкевіца\)](#) | [Català](#) | [Česky](#) | [Deutsch](#) | [Deutsch \(Sie-Form\)](#) | [Ελληνικά](#) | [English](#) | [Español](#) | [Euskara](#) | [فارسی](#) | [Suomi](#) | [Français](#) | [Galego](#) | [Alemannisch](#) | [עברית](#) | [Magyar](#) | [Interlingua](#) | [Italiano](#) | [日本語](#) | [ភាសាខ្មែរ](#) | [한국어](#) | [Kurdî](#) | [Lietuvių](#) | [Македонски](#) | [മലയാളം](#) | [Plattdüütsch](#) | [Nederlands](#) | [Occitan](#) | [Polski](#) | [Portugués](#) | [Portugués do Brasil](#) | [Română](#) | [Русский](#) | [Slovenčina](#) | [Svenska](#) | [Тоҷикӣ](#) | [Türkçe](#) | [中文\(简体\)](#) | [中文\(繁體\)](#) | [ဘာသာ](#)

Vernacular names

English: Birds · **Afrikaans:** Voël · **العربية:** طائر · **Asturianu:** Páaru · **Bahasa Indonesia:** Burung · **Bahasa Melayu:** Burung · **Български:** Птици · **Català:** Ocell · **Česky:** Ptáci · **Cymraeg:** Aderyn · **Dansk:** Fugl · **Deutsch:** Vögel · **Dorerin Naoero:** Tototi · **Eesti:** Linnud · **Español:** Ave · **Esperanto:** Birdoj · **فارسی:** پرنده · **Français:** Oiseau · **Frysk:** Fûgels · **Gaeilge:** Éan · **Galego:** Paxaro · **한국어:** 새 · **Hrvatski:** Ptice · **Ido:** Ucelo · **Íslenska:** Fugl · **Italiano:** Uccelli · **עברית:** עופות · **ಕನ್ನಡ:** ಛರಣಪಕ್ಷಿಗಳು · **Kernowek:** Edhen · **Kiswahili:** Ndege · **Kurdî:** Çûk · **Latina:** Avis · **Lëtzebuergesch:** Vullen · **Lietuvių:** Paukščiai · **Limburgs:** Veugel · **Magyar:** Madár · **Nederlands:** Vogels · **日本語:** 鳥類 · **Norsk (bokmål):** Fugler · **Norsk (nynorsk):** Fugl · **Occitan:** Aves · **Plattdüütsch:** Vagel · **Polski:** Ptaki · **Portugués:** Aves · **Русский:** Птицы · **Slovenčina:** Vtáky · **Slovenščina:** Ptič · **Српски / Srpski:** Птице · **Suomi:** Linnut · **Svenska:** Fåglar · **ไทย:** นก · **Tiếng Việt:** Chim · **Türkçe:** Kuşlar · **Українська:** Птахи · **Walon:** oujheas · **中文:** 鸟

Subcategories

This category has the following 40 subcategories, out of 40 total.

- [\[+\] Birds by color](#) (11 C)
 - [\[+\] Birds by common name](#) (13 C)
 - [\[+\] Birds by country](#) (162 C, 1 F)
 - [\[+\] Birds by lake](#) (3 C)
 - [\[+\] Birds by region](#) (10 C, 1 F)
 - [\[+\] Birds by setting](#) (12 C)
 - !**
 - [\[+\] Featured pictures of birds](#) (2 C, 278 F)
 - [\[+\] Quality images of birds](#) (3 C, 212 F)
 - ***
 - [\[+\] Birds in art](#) (74 C, 2 P, 383 F)
 - [\[+\] Aviculture](#) (9 C, 3 F)
 - [\[+\] Birdwatching](#) (6 C, 1 P, 29 F)
 - [\[+\] Bird distribution maps](#) (23 C, 1 P, 41 F)
 - [\[+\] Ornithology](#) (7 C, 40 F)
 - ?**
 - [\[+\] Unidentified birds](#) (29 C, 107 F)
- A**
 - [\[+\] Abused birds](#) (1 C, 1 F)
 - [\[+\] Albinism in birds](#) (4 C, 32 F)
 - [\[+\] Bird anatomy](#) (19 C, 20 F)
 - [\[+\] Audio files of Aves](#) (16 C, 6 F)
 - B**
 - [\[+\] Bird behavior](#) (19 C, 23 F)
 - [\[x\] Bird harness](#) (6 F)
 - [\[+\] Bird hunting](#) (3 C, 14 F)
 - [\[+\] Bird repellents](#) (5 C, 26 F)
 - [\[+\] Birdhouses](#) (3 C, 1 P, 65 F)
 - C**
 - [\[+\] Bird conservation](#) (9 C, 7 F)
 - F**
 - [\[+\] Bird feces](#) (1 C, 33 F)
 - [\[x\] Feral birds](#) (58 F)
 - [\[+\] Bird flight](#) (2 C, 4 F)
 - [\[+\] Flightless birds](#) (27 C, 1 P, 3 F)
 - I**
 - [\[x\] Invasive birds](#) (5 F)
 - L**
 - [\[+\] Bird reproduction](#) (9 C)
 - P**
 - [\[+\] Bird parks](#) (12 C, 7 F)
 - [\[x\] Bird pellets](#) (4 F)
 - [\[+\] People with birds](#) (12 C, 76 F)
 - [\[+\] Pronunciation of words relating to birds](#) (2 C, 29 F)
 - S**
 - [\[x\] Bird seed](#) (9 F)
 - [\[+\] Bird-related signs](#) (2 C, 14 F)
 - T**
 - [\[+\] Bird toys](#) (1 C, 7 F)
 - [\[+\] Bird tracks](#) (1 C, 36 F)
 - V**
 - [\[+\] Veterinary medicine for birds](#) (1 C)
 - †**
 - [\[+\] Extinct birds](#) (49 C, 8 F)



Wikimedia Commons – Proposed task 2: Categorization - 3

Category:Aircraft

The article **Aircraft** on Wikipedia projects:

af:Vliegtuig | ar:جناح | bg:Летателен апарат | bs:Zrakoplov | ca:Aeronau | cs:Letadlo | cy:Awyren | da:Luftfartøj | de:Luftfahrzeug | en:Aircraft | eo:aviadilo | es:Aeronave | et:Õhusõiduk | fa:جنگ‌جناح | fi:Ilma-alus | fr:Aéronef | fy:Lofftartúch | gl:Aeronave | he:כלי טיס | hi:वायुयान | hr:Zrakoplov | hu:Repülőgép | id:Pesawat terbang | io:Aeronavo | is:Lofftar | it:Aeromobile | ja:航空機 | ko:항공기 | lt:Orlaivis | ms:Pesawat udara | nl:Luchtvaartuig | no:Luftfartøy | pl:Statek powietrzny | pt:Aeronave | ro:Aerodină | ru:Воздушное судно | simple:Aircraft | sk:Lietadlo | sl:Zrakoplov | sr:Ваздухоплов | sv:Flygmaskin | ta:வானூர்தி | th:อากาศยาน | tr:Hava taşıtı | vi:Khí cụ bay | vo:Oko ofurufu | zh:航空器

An **aircraft** is a vehicle which is able to fly by being supported by the air, or in general, the atmosphere, of a planet. Examples include balloons, airplanes and helicopters.

Editors please ensure that the subcategory hierarchy is similar to the corresponding Wikipedia category hierarchy.

Subcategories

This category has the following 49 subcategories, out of 49 total.

- [+] [Aircraft by color](#) (14 C)
- [+] [Aircraft by condition](#) (6 C)
- [+] [Aircraft by country](#) (119 C, 1 F)
- [−] [Aircraft by function](#) (15 C)
 - [+] [Helicopters by function](#) (6 C)
 - [+] [Aerobatic aircraft](#) (26 C, 14 F)
 - [+] [Agricultural aircraft](#) (14 C, 40 F)
 - [+] [Airborne aircraft carriers](#) (6 C, 12 F)
 - [+] [Bush planes](#) (1 C, 8 F)
 - [+] [Civil aircraft](#) (61 C, 13 P, 27 F)
 - [+] [Firefighting aircraft](#) (11 C, 41 F)
 - [+] [General aviation aircraft](#) (25 C, 28 F)
 - [+] [Military aircraft](#) (19 C, 16 F)
 - [+] [Police aircraft](#) (3 C, 1 F)
 - [+] [Rescue aircraft](#) (8 C, 7 F)
 - [+] [Tanker aircraft](#) (10 C, 1 P, 4 F)
 - [+] [Trainer aircraft](#) (14 C, 1 P, 23 F)
 - [+] [Transport aircraft](#) (28 C, 12 F)
 - [+] [Utility aircraft](#) (7 C, 1 F)
- [+] [Aircraft by location](#) (27 C)
- [+] [Aircraft by manufacturer](#) (397 C, 1 F)
- [+] [Aircraft by motive power](#) (6 C)
- [+] [Aircraft by museum](#) (2 C)
- [+] [Aircraft by operator](#) (4 C)
- [+] [Aircraft by period](#) (6 C)
- [+] [Aircraft by registration](#) (9739 C)
- [+] [Aircraft by type](#) (33 C, 2 F)

A

- [+] [Aircraft with advertisement](#) (3 C, 9 F)

A cont.

- [+] [Anti-aircraft weapons](#) (12 C, 1 P, 22 F)
- [+] [Aircraft in art](#) (15 C, 102 F)

B

- [×] [Black and white photographs of aircraft](#) (153 F)

C

- [+] [Aircraft carriers](#) (23 C, 3 F)
- [+] [Cutaways of aircraft](#) (1 C, 9 F)

D

- [+] [Drawings of aircraft](#) (8 C, 107 F)

F

- [+] [Aircraft in fiction](#) (3 C, 20 F)
- [×] [Fuel dumping](#) (7 F)

L

- [+] [Aircraft liveries](#) (3 C)
- [+] [Locomotive nameplates featuring aircraft](#) (1 C, 5 F)

M

- [+] [Maiden flights](#) (2 C, 1 F)
- [+] [Aircraft maintenance](#) (1 C, 84 F)
- [+] [Aircraft manufacturers](#) (293 C)
- [+] [Mechanics of Aircraft Structures - University of Florida course EAS4200C](#) (1 C, 174 F)
- [+] [Models of aircraft](#) (16 C, 3 P, 168 F)
- [+] [Aircraft in motion](#) (1 C, 62 F)

O

- [+] [Aircraft operations](#) (6 C, 1 F)

Category Aircraft on [sister projects](#):



Airbus A380.



O cont.

- [+] [Aircraft operators maps](#) (1 C, 81 F)

P

- [+] [Aircraft parts](#) (34 C, 1 P, 132 F)
- [+] [People with aircraft](#) (8 C, 85 F)
- [×] [Pronunciation of words relating to aircraft](#) (18 F)

R

- [+] [Re-used aircraft registrations](#) (11 C)
- [×] [Reflections on aircraft](#) (1 F)
- [+] [Aircraft-related road signs](#) (1 C)

S

- [×] [Sunrises taken from aircraft](#) (6 F)
- [×] [Sunsets taken from aircraft](#) (15 F)
- [+] [Symbols of aircraft](#) (2 C, 1 F)

T

- [+] [Transport of aircraft](#) (4 C, 1 F)

V

- [+] [Videos of aircraft](#) (24 C, 5 F)
- [+] [Views of aircraft](#) (7 C, 1 F)

W

- [×] [Water reflections of aircraft](#) (6 F)

~

- [+] [Unidentified aircraft](#) (1 C, 47 F)



Wikimedia Commons – Proposed task 2: Categorization - 4

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- [+] [Aircraft by manufacturer](#) (397 C, 1 F)
- [+] [Aircraft by motive power](#) (6 C)
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A

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A cont.

- [+] [Anti-aircraft weapons](#) (12 C, 1 P, 22 F)
- [+] [Aircraft in art](#) (15 C, 102 F)

B

- [x] [Black and white photographs of aircraft](#) (153 F)

C

- [+] [Aircraft carriers](#) (23 C, 3 F)
- [+] [Cutaways of aircraft](#) (1 C, 9 F)

D

- [+] [Drawings of aircraft](#) (8 C, 107 F)

F

- [+] [Aircraft in fiction](#) (3 C, 20 F)
- [x] [Fuel dumping](#) (7 F)

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- [+] [Aircraft liveries](#) (3 C)
- [+] [Locomotive nameplates featuring aircraft](#) (1 C, 5 F)

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- [+] [Maiden flights](#) (2 C, 1 F)
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- [+] [Aircraft-related road signs](#) (1 C)

S

- [x] [Sunrises taken from aircraft](#) (6 F)
- [x] [Sunsets taken from aircraft](#) (15 F)
- [+] [Symbols of aircraft](#) (2 C, 1 F)

T

- [+] [Transport of aircraft](#) (4 C, 1 F)

V

- [+] [Videos of aircraft](#) (24 C, 5 F)
- [+] [Views of aircraft](#) (7 C, 1 F)

W

- [x] [Water reflections of aircraft](#) (6 F)

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- [+] [Unidentified aircraft](#) (1 C, 47 F)



Wikimedia Commons – Proposed task 3: Plant identification

- Plant identification

- Is it a plant

- Type of image

- Scan of leaf

- Photo of individual leaf

- Photo in nature

- What type of leaf does it have?

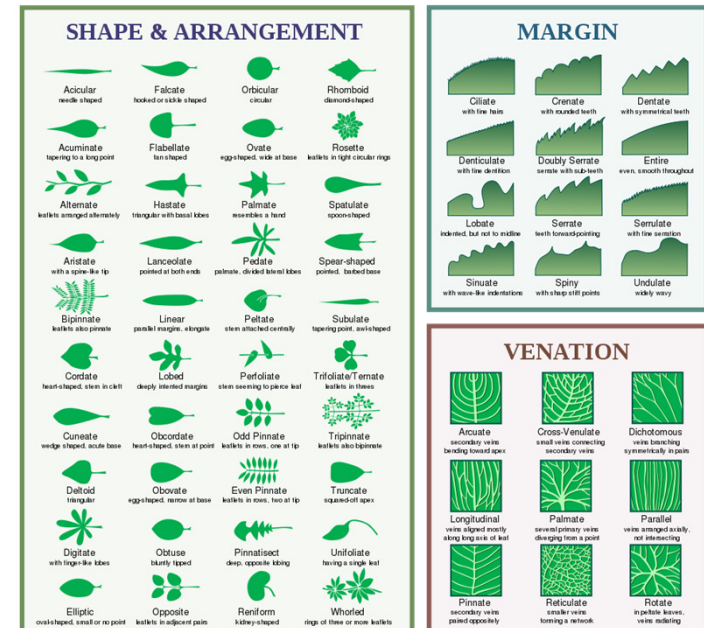
- Shape and Arrangement

- Margin

- Venation

- Identification isn't necessarily down to the species

- A human botanist can disambiguate further





Wikimedia Foundation – Proposed tasks

- **Wikimedia servers**
 - Performance
 - More efficient distribution of load
 - Detection of trends leading to failure
 - Help determine deadlines for upgrades
 - Cyber Defense
 - Anomaly detection
 - Detect botnets
 - Detect sneaky RATs
 - Consider Stuxnet and DuQu
 - Detection of manipulation to database
 - Does Wikipedia count as “critical infrastructure”?
- **Sentiment analysis of social media and the web**
 - Improve relations by not being deaf to the concerns of readers
 - Handle false information about the WMF
 - Identify impersonation attempts of WMF



Wikimedia Commons – Questions?



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- Thank You!
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