

function

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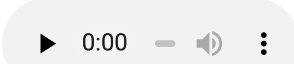
English

Etymology

From Middle French *function*, from Old French *fonction*, from Latin *functionem*, accusative of *functiō* (“performance, execution”), from *functus* perfect participle of *fungor* (“I perform, I execute, I discharge”).

Pronunciation

- (UK) IPA^(key): /ˈfʌŋ(k)ʃən/, /ˈfʌŋkʃn/
- (US) IPA^(key): /ˈfʌŋkʃən/, [ˈfʌŋkʃɪn], [ˈfʌŋkʃn]

- Audio (US) 

- Hyphenation: func·tion
- Rhymes: -ʌŋkʃən

Noun

function (*plural functions*)

1. What something does or is used for.

- **2013** May-June, Katrina G. Claw (<https://web.archive.org/web/20170830044824/http://www.americanscientist.org/authors/detail/katrina-g-claw>), “Rapid Evolution in Eggs and Sperm (<https://web.archive.org/web/20170830044824/http://www.americanscientist.org/issues/feature/2013/3/rapid-evolution-in-eggs-and-sperm>)”, in *American Scientist*, volume 101, number 3:

Many genes with reproductive roles also have antibacterial and immune **functions**, which indicate that the threat of microbial attack on the sperm or egg may be a major influence on rapid evolution during reproduction.

Synonyms: aim, intention, purpose, role, use

2. A professional or official position.

Synonyms: occupation, office, part, role

3. An official or social occasion.

Synonyms: affair, occasion, social occasion, social function

4. A relation where one thing is dependent on another for its existence, value, or significance.

5. (*mathematics*) A relation in which each element of the domain is associated with exactly one element of the codomain.

Synonyms: map, mapping, mathematical function, operator, transformation

Hypernyms: relation

6. (*computing*) A routine that receives zero or more arguments and may return a result.

Synonyms: procedure, routine, subprogram, subroutine, func, funct

7. (*biology*) The physiological activity of an organ or body part.

8. (*chemistry*) The characteristic behavior of a chemical compound.

9. (*anthropology*) The role of a social practice in the continued existence of the group.

Hyponyms

The terms below need to be checked and allocated to the definitions (senses) of the headword above. Each term should appear in the sense for which it is appropriate. Use the templates or to add them to the appropriate sense(s).

- subfunction

astronomy: Hyponyms of *function*

- luminosity function
- mass function
- phase function
- source function

- (*chemistry*): acidity function

computing: Hyponyms of *function*

- anonymous function
- Boolean function
- built-in function
- computable function
- concave function
- constructor function
- convex function
- error function
- first-class function
- predefined function
- recursive function
- restricted function
- second-class function
- set function
- switch function
- third-class function
- transition function
- user-defined function

logic: Hyponyms of *function*

- AND function
- Boolean function
- NOR function
- NOT function
- OR function
- propositional function
- switching function
- truth function

management: Hyponyms of *function*

- line function
- staff function

mathematics: Hyponyms of *function*

- additive function
- aggregate function
- algebraic function
- alternating function
- analytic function
- anonymous function
- Baire function
- bei function
- ber function
- Bessel function
- beta function
- Bloch function
- bounded function
- boxcar function
- Brillouin function
- Cantor function
- characteristic function
- circular function
- comparable function
- complementary function
- composite function
- connect function
- constant function
- constraint function
- contiguous function
- continuous function
- correlation function
- cost function
- critical function
- cylinder function
- decreasing function
- delta function
- density function
- describing function
- differentiable function
- discriminant function
- Emden function
- entire function
- Euler's phi function
- even function
- explicit function
- exponential function
- first-class function
- form function
- Fowler function
- frontogenetic function
- gamma function
- generating function
- Green's function
- Hamiltonian function
- Hankel function
- harmonic function
- hei function
- her function
- Hildebrand function
- homogeneous function
- Hugoniot function
- hyperbolic function
- hypergeometric function
- identity function
- implicit function
- impulse function
- incidence function
- increasing function
- independent function
- influence function
- inner function
- integrable function
- integral function
- invariant function
- inverse function
- inverting function
- Lagrangian function
- Lamé function
- Legendre function
- Leverett function
- linear function
- Liouville function
- loss function
- Lyapunov function
- mass function
- Massieu function
- Mathieu function
- measurable function
- membership function
- meromorphic function
- microspec function
- Möbius function
- monotone function
- multilinear function
- natural function
- Neumann function
- normalized function
- normalized support function
- number-theoretic function
- objective function
- odd function
- orthogonal function
- orthonormal function
- partial function
- partition function
- Patterson function
- penalty function
- periodic function
- Planck function
- point function
- polynomial function
- rational function
- real function
- recursive function
- regular function
- Riemann function
- Riemann P function
- sample function
- scalar function
- self-organizing function
- sensitivity function
- shear-viscosity function
- sigma function
- signum function
- simple function
- single-valued function
- sinusoidal function
- Smarandache function
- special function
- step function
- stream function
- stress function
- summable function
- support function
- symmetric function
- test function
- theta function
- torsion function
- transcendental function
- transfer function
- transmission function
- trigonometric cofunction
- trigonometric function
- truth function
- unit function

- physics: Hyponyms of *function***

- (*psychology*): executive ego function
- (*signal processing*): spectral density function/spectral function
- (*systems theory*): control function

terms derived from "function"

- terms derived from "function"**

- analytical function generator
- anatomy of function
- diode function generator
- dysfunction
- eigenfunction expansion
- function code
- function-evaluation routine
- function failure safety
- function generator
- function key
- function multiplier
- function object
- function space
- function switch
- function table
- function unit
- general-purpose function generator
- implicit function theorem
- information function of a partition
- inverse function theorem
- malfunction routine
- mathematical function program
- minimal brain dysfunction syndrome
- monofunctional compound
- multifunction array radar
- nonfunctional packages software
- positive linear functional
- programmed function key
- radicofunctional name
- second-class function
- separated-function synchrotron
- sharpness function technique
- step-function generator
- tapped-potentiometer function generator
- thermodynamic function of state
- tool-function controller
- variable diode function generator

Translations

what something does or is used for

- Afrikaans: funksie
- Albanian: funksion ^(sq)
- Arabic: وَظِيفَة *f* (wazīfa)
- Armenian: ֆունկցիա ^(hy) (funkeˈia)
- Azeri: funksiya ^(az)
- Belarusian: функцыя *f* (fŭnkcyja)
- Bulgarian: функция ^(bg) *f* (funkcija)
- Catalan: funció ^(ca) *f*
- Chinese:

Mandarin: 功能 ^(zh) (gōngnéng), 機能 ^(zh), 机能 ^(zh) (jīnéng)

- Czech: funkce ^(cs) *f*, účel ^(cs) *m*
- Danish: funktion *ɕ*
- Dutch: functie ^(nl) *f*
- Estonian: funktsioon
- Finnish: tehtävä ^(fi), tarkoitus ^(fi), toiminto ^(fi)
- French: fonction ^(fr) *f*
- Galician: función ^(gl) *f*
- Georgian: ფუნქცია ^(ka) (punkcia)
- German: Funktion ^(de) *f*, Funktionalität ^(de) *f*
- Greek: λειτουργία ^(el) *f* (leitourgía)
- Hebrew: תִּפְּקָל ^(he) *m* (tafkíd)
- Hungarian: funkció ^(hu)
- Indonesian: fungsi ^(id)
- Irish: feidhm *f*, feidhmeannas *m*
- Italian: funzione ^(it) *f*
- Japanese: 機能 ^(ja) (kinō)
- Kazakh: функция (fwnkcīya)

- Korean: 기능 ^(ko) (gineung)
- Kurdish:

Sorani: کار ^(ku), کاروبار

- Kyrgyz: функция ^(ky) (funktsiya)
- Latin: pars ^(la)
- Latvian: funkcija *f*
- Lithuanian: funkcija ^(lt) *f*
- Macedonian: функција *f* (funkcija)
- Malay: fungsi
- Norwegian: funksjon ^(no) *m*
- Persian: تابع ^(fa) (tâbe')
- Polish: funkcja ^(pl) *f*
- Portuguese: função ^(pt) *f*
- Romanian: funcție ^(ro) *f*
- Russian: функция ^(ru) *f* (funkcija)
- Serbo-Croatian: funkcija ^(sh) *f*, svrha ^(sh) *f*, функција *f*
- Slovak: funkcia *f*
- Slovene: funkcija *f*
- Spanish: función ^(es) *f*
- Swedish: funktion ^(sv) *ɕ*, uppgift ^(sv) *ɕ*
- Tagalog: taan, laan
- Tajik: функция ^(tg) (funksiya)
- Turkish: fonksiyon ^(tr), işlev ^(tr)
- Ukrainian: функція *f* (funkcija)
- Uzbek: funksiya ^(uz)
- Vietnamese: chức năng ^(vi)

professional or official position

- Bulgarian: служба^(bg) *f* (služba)
- Catalan: funció^(ca) *f*
- Czech: funkce^(cs) *f*
- Danish: funktion *ɕ*
- Dutch: functie^(nl) *f*
- Finnish: tehtävä^(fi), toimi^(fi)
- German: Funktion^(de) *f*, Aufgabe^(de) *f*
- Greek: λειτουργία^(el) *n* (leitourgima), αποστολή^(el) *f* (apostolí), καθήκον^(el) *n* (kathíkon)
- Hebrew: תפקיד^(he) *m* (tafkíd)
- Hungarian: funkció^(hu)
- Irish: feidhm *f*
- Japanese: 職務^(ja) (shokumu)
- Norwegian: post^(no) *m*, stilling^(no) *m*
- Polish: funkcja^(pl) *f*, stanowisko^(pl) *n*
- Portuguese: função^(pt) *f*
- Romanian: funcție^(ro) *f*
- Russian: функция^(ru) *f* (fúncija)
- Serbo-Croatian: funkcija^(sh) *f*, služba^(sh) *f*
- Spanish: cargo^(es) *m*
- Swedish: förrättning *ɕ*, kall^(sv) *n*, syssla^(sv) *ɕ*, åliggande^(sv) *n*,

official or social occasion

- Finnish: tilaisuus^(fi), tapahtuma^(fi)
 - German: Funktion^(de) *f*, Feier^(de) *f*, Festveranstaltung *f*
 - Greek: τελετή^(el) *f* (teletí), δεξίωση^(el) *f* (dexíosi)
 - Hebrew: טקס^(he) *m* (erúa)
 - Italian: cerimonia^(it) *f*, funzione^(it) *f*, ricevimento^(it) *m*
 - Manx: cruinnaght *f*
 - Norwegian:
 - Portuguese: função^(pt) *f*
 - Russian: функция^(ru) *f* (fúncija)
 - Spanish: función^(es) *f*
 - Swedish: bjudning *ɕ*, tillställning^(sv) *ɕ*
- Bokmål: tilstelling *m, f*, tilstelning *m, f*
Nynorsk: tilstelling *f*

relation where one thing is dependent on another

- Bulgarian: функция^(bg) *f* (funkcija)
- Czech: funkce^(cs) *f*
- Danish: funktion *ɕ*
- Dutch: functie^(nl) *f*
- Finnish: funktio^(fi)
- Hebrew: פונקציה^(he) *f* (funktsiá)
- Italian: funzione^(it) *f*
- Norwegian: funksjon^(no) *m*
- Portuguese: função^(pt) *f*
- Russian: функция^(ru) *f* (fúncija)
- Serbo-Croatian: funkcija^(sh) *f*
- Swedish: funktion^(sv) *ɕ*
- Tajik: тобеъ^(tg) (tobe')

mathematics: a relation between a set of inputs and a set of permissible outputs

- Arabic: وظيفة^(ar) *f* (wazīfa)
- Armenian: ֆունկցիա^(hy) (funkc'ia)
- Bulgarian: функция^(bg) *f* (funkcija)
- Catalan: funció^(ca) *f*
- Chinese:
- Mandarin: 函數^(zh), 函数^(zh) (hánshù)
- Czech: funkce^(cs) *f*
- Danish: funktion *ɕ*
- Dutch: functie^(nl) *f*, functie^(nl) *f*
- Esperanto: funkcio
- Estonian: funktsioon
- Finnish: funktio^(fi)
- French: fonction^(fr) *f*
- Irish: feidhm *f*
- Italian: funzione^(it) *f*
- Japanese: 関数^(ja) (kansū)
- Korean: 함수^(ko) (hamsu)
- Latin: functiō *f*
- Middle French: fonction
- Norwegian: funksjon^(no) *m*
- Old French: function
- Persian: تابع^(fa) (tâbe')
- Polish: funkcja^(pl) *f*
- Portuguese: função^(pt) *f*
- Romanian: funcție^(ro)
- Russian: функция^(ru) *f* (fúncija)
- Serbo-Croatian: funkcija^(sh) *f*
- Spanish: función^(es) *f*

- German: Funktion ^(de) *f*.
- Greek: συνάρτηση ^(el) *f* (synártisi)
- Hebrew: פונקציה ^(he) *f* (funktsiá)
- Hindi: फलन ^(hi) (falan)
- Hungarian: függvény ^(hu)
- Icelandic: fall ^(is)
- Ido: funciono ^(io)
- Indonesian: fungsi ^(id)

- Swedish: funktion ^(sv)
- Tagalog: kabisa
- Thai: ฟังก์ชัน ^(th) (fang-chân)
- Turkish: fonksiyon ^(tr)
- Ukrainian: функція (funkcija)
- Urdu: عمل کام فعل

computing: routine that returns a result

- Arabic: وَطِيقَة *f* (wazīfa)
- Bulgarian: функция ^(bg) *f* (funkcija)
- Catalan: funció ^(ca) *f*
- Chinese:

Mandarin: 功能 ^(zh) (gōngnéng), 函数 ^(zh), 函数 ^(zh) (hánshù)

- Czech: funkce ^(cs) *f*
- Danish: funktion *ç*
- Dutch: functie ^(nl) *f*
- Finnish: funktio ^(fi)
- French: fonction ^(fr) *f*
- German: Funktion ^(de) *f*.
- Greek: διαδικασία ^(el) *f* (diadikasía)
- Hebrew: פונקציה ^(he) *f* (funktsiá)
- Hungarian: függvény ^(hu)

- Irish: feidhm *f*.
- Italian: funzione ^(it) *f*.
- Japanese: 関数 ^(ja) (kansū)
- Norwegian: funksjon ^(no) *m*.
- Persian: تابع ^(fa) (tâbe')
- Polish: funkcja ^(pl) *f*.
- Portuguese: função ^(pt) *f*.
- Russian: функция ^(ru) *f* (fúncija)
- Serbo-Croatian: funkcija ^(sh) *f*.
- Spanish: función ^(es) *f*.
- Swedish: funktion ^(sv) *ç*, subrutin *ç*
- Thai: ฟังก์ชัน ^(th) (fang-chân)
- Turkish: işlev ^(tr), fonksiyon ^(tr)

biology: physiological activity of an organ or body part

- Bulgarian: функция ^(bg) *f* (funkcija)
- Catalan: funció ^(ca) *f*
- Chinese:

Mandarin: 功能 ^(zh) (gōngnéng)

- Czech: funkce ^(cs) *f*
- Dutch: functie ^(nl) *f*
- Finnish: toiminta ^(fi)
- French: fonction ^(fr) *f*
- German: Funktion ^(de) *f*, Zweck ^(de) *m*
- Greek: λειτουργία ^(el) *f* (leitourgía)
- Irish: feidhm *f*.

- Italian: funzione ^(it) *f*.
- Japanese: 機能 ^(ja) (kinō)
- Norwegian: funksjon ^(no) *m*.
- Portuguese: função ^(pt) *f*.
- Russian: функция ^(ru) *f* (fúncija)
- Serbo-Croatian: funkcija ^(sh) *f*.
- Spanish: función ^(es) *f*.
- Swedish: funktion ^(sv) *ç*
- Tagalog: taan
- Turkish: fonksiyon ^(tr), işlev ^(tr)

chemistry: characteristic behavior of a chemical compound

- Catalan: funció ^(ca) *f*
- Dutch: functie ^(nl) *f*
- Finnish: käyttäytyminen ^(fi)
- German: Funktion ^(de) *f*
- Italian: funzione ^(it) *f*

- Japanese: 機能 ^(ja) (kinō)
- Russian: функция ^(ru) *f* (fúncija)
- Serbo-Croatian: funkcija ^(sh) *f*.
- Swedish: funktion ^(sv) *ç*

Translations to be checked	
▪ Interlingua: function (1, 2, 3)	

Verb

function (*third-person singular simple present* **functions**, *present participle* **functioning**, *simple past and past participle* **functioned**)

1. (*intransitive*) to have a function

Synonyms: officiate, serve

2. (*intransitive*) to carry on a function; to be in action

Synonyms: go, operate, run, work

Antonyms: malfunction

Related terms

- functional
- dysfunction, dysfunctional

Translations

to have a function	
▪ Danish: fungere ▪ Dutch: fungeren ^(nl), dienen ^(nl) ▪ Finnish: toimia ^(fi) ▪ German: fungieren ^(de) ▪ Greek: λειτουργώ ως (leitourgó os) ▪ Hebrew: טִיפֵּל (tifkéd) ▪ Hungarian: -ra/-re való, -ra/-re szolgál	▪ Irish: feidhmigh ▪ Italian: funzionare ^(it) ▪ Japanese: 作用する (sayō-suru), 動く (ja) (うごく, ugoku) ▪ Portuguese: funcionar ^(pt) ▪ Spanish: fungir ^(es) ▪ Swedish: fungera ^(sv), tjänstgöra ^(sv), verka ^(sv)
to carry on a function	
▪ Armenian: գործել ^(hy) (gorcel), աշխատել ^(hy) (aşxatel), բանել ^(hy) (banel) ▪ Bulgarian: функционирам ^(bg) (funkcioniram) ▪ Catalan: funcionar ^(ca) ▪ Danish: fungere, virke ▪ Dutch: functioneren ^(nl) ▪ Esperanto: funkcii ▪ Finnish: käydä ^(fi), olla käynnissä, toimia ^(fi) ▪ French: fonctionner ^(fr), marcher ^(fr) ▪ German: funktionieren ^(de), arbeiten ^(de), wirken ^(de), (<i>slang</i>) funzen ^(de)	▪ Italian: funzionare ^(it) ▪ Japanese: 機能する (kinō-suru) ▪ Malay: berfungsi ▪ Norman: marchi ▪ Polish: działać ^(pl) ▪ Portuguese: funcionar ^(pt) ▪ Quechua: llamk'ay ▪ Romanian: funcționa ^(ro) ▪ Russian: функционировать ^(ru) <i>impf</i> (funkcionírovat') ▪ Spanish: funcionar ^(es), fungir ^(es) ▪ Swedish: fungera ^(sv), tjänstgöra ^(sv)

22/2/24, 10:44 - Greek: λειτουργώ ^(el) (leitourgó), εργάζομαι ^(el) (ergázomai) - Hebrew: תִּפְקֵד (tifkéḏ), פָּאָל ^(he) (pa'ál) - Hungarian: működik ^(hu) - Irish: feidhmigh	function - Wiktionary Vietnamese: <i>please add this translation if you can</i>
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Middle French

Noun

function *f* (*plural functions*)

- function (what something's intended use is)

Descendants

- English: function (*borrowed*)
- French: fonction

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