

Duns Scotus

en.wikipedia.org

March 20, 2022

On the 28th of April 2012 the contents of the English as well as German Wikibooks and Wikipedia projects were licensed under Creative Commons Attribution-ShareAlike 3.0 Unported license. A URI to this license is given in the list of figures on page 57. If this document is a derived work from the contents of one of these projects and the content was still licensed by the project under this license at the time of derivation this document has to be licensed under the same, a similar or a compatible license, as stated in section 4b of the license. The list of contributors is included in chapter Contributors on page 41. The licenses GPL, LGPL and GFDL are included in chapter Licenses on page 61, since this book and/or parts of it may or may not be licensed under one or more of these licenses, and thus require inclusion of these licenses. The licenses of the figures are given in the list of figures on page 57. This PDF was generated by the L^AT_EX typesetting software. The L^AT_EX source code is included as an attachment (`source.7z.txt`) in this PDF file. To extract the source from the PDF file, you can use the `pdfdetach` tool including in the `poppler` suite, or the <http://www.pdflabs.com/tools/pdftk-the-pdf-toolkit/> utility. Some PDF viewers may also let you save the attachment to a file. After extracting it from the PDF file you have to rename it to `source.7z`. To uncompress the resulting archive we recommend the use of <http://www.7-zip.org/>. The L^AT_EX source itself was generated by a program written by Dirk Hünniger, which is freely available under an open source license from http://de.wikibooks.org/wiki/Benutzer:Dirk_Huenniger/wb2pdf.

Contents

1 Duns Scotus	3
1.1 Life	5
1.2 Work	8
1.3 Metaphysics	10
1.4 Theology	11
1.5 Veneration	24
1.6 Later reputation and influence	24
1.7 In popular media	27
1.8 Bibliography	27
1.9 See also	30
1.10 Notes	30
1.11 Further reading	35
1.12 External links	36
2 Contributors	41
List of Figures	57
3 Licenses	61
3.1 GNU GENERAL PUBLIC LICENSE	61
3.2 GNU Free Documentation License	62
3.3 GNU Lesser General Public License	63

1 Duns Scotus

Scottish Franciscan friar, philosopher and Catholic blessed Not to be confused with John Scotus Eriugena¹.

John Duns Scotus

Portrait of Duns Scotus

Born june 23, 1265/66

Other name *Doctor Subtilis* (the Subtle Doctor)

Alma mater University of Oxford^{[1][2]}

Era	Medieval philosophy
Region	Western philosophy
School	Scholasticism
	Scotism
	Aristotelianism ^[3]
	Theological voluntarism ^[4]
	Philosophical realism
	Medieval realism (Scotistic realism)
Main interests	Metaphysics, theology, logic, epistemology, ethics
Notable ideas	Univocity of being Formal distinction Theological voluntarism Haecceity as a principle of individuation Scotistic realism Immaculate Conception of the Virgin Mary

Blessed

John Duns Scotus

OFM

Duns Scotus and Thomas Aquinas

¹ https://en.wikipedia.org/wiki/John_Scotus_Eriugena

Blessed

John Duns Scotus

OFM

Religious and Priest

Born c.1265/66

Duns, Berwickshire, Scotland

Died 8 November 1308 (aged 41–42)

Cologne, Holy Roman Empire

Venerated Catholic Church

Beat- 20 March 1993, Vatican City by

ified Pope John Paul II

Ma- Franciscan Church, Cologne, Ger-
jor many

shrine

Feast 8 November

At- Books, a vision of the Blessed Vir-
tributes gin Mary, the moon on the chest of
a Franciscan friar

Pa- Academics, Cologne, Germany,
tron- apologies, scholars, student, the-
age ologians and philosophers

John Duns Scotus OFM² (c. 1265/66 – 8 November 1308),^[9] commonly called **Duns Scotus** (/ˈskoutəs/³ SKOH-təs⁴; Ecclesiastical Latin⁵: [duns 'skotus]⁶; "Duns the Scot"), was a Scottish Catholic priest and Franciscan friar⁷, university professor, philosopher, and theologian. He is one of the four most important philosopher-theologians of Western Europe⁸ in the High Middle Ages⁹, together with Thomas Aquinas¹⁰, Bonaventure¹¹, and William of Ockham¹².^[10] Scotus has had considerable influence on both Catholic¹³ and secular thought. The doctrines for which he is best known are the "univocity of being"¹⁴, that existence is the most abstract concept we have, applicable to everything that exists; the formal distinction¹⁵, a way of distinguishing between different aspects of the same thing; and the idea of haecceity¹⁶, the property supposed to be in each individual thing that makes it an

2 https://en.wikipedia.org/wiki/Order_of_Friars_Minor

3 <https://en.wikipedia.org/wiki/Help:IPA/English>

4 https://en.wikipedia.org/wiki/Help:Pronunciation_respelling_key

5 https://en.wikipedia.org/wiki/Ecclesiastical_Latin

6 <https://en.wikipedia.org/wiki/Help:IPA/Latin>

7 https://en.wikipedia.org/wiki/Franciscan_friar

8 https://en.wikipedia.org/wiki/Western_Europe

9 https://en.wikipedia.org/wiki/High_Middle_Ages

10 https://en.wikipedia.org/wiki/Thomas_Aquinas

11 <https://en.wikipedia.org/wiki/Bonaventure>

12 https://en.wikipedia.org/wiki/William_of_Ockham

13 https://en.wikipedia.org/wiki/Catholic_Church

14 https://en.wikipedia.org/wiki/Univocity_of_being

15 https://en.wikipedia.org/wiki/Formal_distinction

16 <https://en.wikipedia.org/wiki/Haecceity>

individual. Scotus also developed a complex argument for the existence of God, and argued for the Immaculate Conception¹⁷ of Mary¹⁸.

Duns Scotus was given the scholastic accolade¹⁹ *Doctor Subtilis* ("the Subtle Doctor") for his penetrating and subtle manner of thought. He was beatified²⁰ by Pope John Paul II²¹ in 1993.

1.1 Life



Figure 1 Plaque commemorating Duns Scotus in the University Church, Oxford

Little is known of Duns Scotus apart from his work. His date of birth is believed to have been sometime between December 23, 1265 and March 17, 1266. He was born into a leading family of the region. The reputed site of his birth, in front of the Pavilion Lodge, near the North Lodge of Duns Castle²² in Scotland, is now marked by a cairn²³ which was erected in

17 https://en.wikipedia.org/wiki/Immaculate_Conception

18 [https://en.wikipedia.org/wiki/Mary_\(mother_of_Jesus\)](https://en.wikipedia.org/wiki/Mary_(mother_of_Jesus))

19 https://en.wikipedia.org/wiki/Scholastic_accolades

20 <https://en.wikipedia.org/wiki/Beatification>

21 https://en.wikipedia.org/wiki/Pope_John_Paul_II

22 https://en.wikipedia.org/wiki/Duns_Castle

23 <https://en.wikipedia.org/wiki/Cairn>

1966 by the Franciscan friars of the United Kingdom to mark the 700th anniversary of his birth. Duns Scotus received the religious habit²⁴ of the Order of Friars Minor at Dumfries²⁵, where his uncle, Elias Duns, was guardian²⁶.^[11]

Duns Scotus's age is based on the first certain date for his life, that of his ordination to the priesthood²⁷ at St Andrew's²⁸, Northampton²⁹, England, on 17 March 1291. The minimum canonical³⁰ age for receiving holy orders³¹ is 25 and it is generally assumed that he would have been ordained as soon as it was permitted.^{[12][13]} That his contemporaries called him **Johannes Duns**, after the medieval practice of calling people by their Christian name followed by their place of origin, suggests that he came from Duns³², in Berwickshire, Scotland.^[14]

According to tradition, Duns Scotus was educated at a Franciscan *studium generale*³³ (a medieval university³⁴), a house behind St Ebbe's Church, Oxford³⁵, in a triangular area enclosed by Pennyfarthing Street and running from St Aldate's³⁶ to the Castle, the Baley and the old wall,^[15] where the Friars Minor had moved when the University of Paris³⁷ was dispersed in 1229–30. At that time there would have been about 270 persons living there, of whom about 80 would have been friars.^[16]

Duns Scotus appears to have been in Oxford³⁸ by 1300, as he is listed among a group of friars for whom the provincial superior³⁹ of the English ecclesiastical province⁴⁰ (which included Scotland) requested faculties from the Bishop of Lincoln⁴¹ for the hearing of confessions⁴².^[17] He took part in a disputation under the regent master, Philip of Bridlington⁴³ in 1300–01.^[18] He began lecturing on Peter Lombard⁴⁴'s *Sentences*⁴⁵ at the prestigious University of Paris towards the end of 1302. Later in that academic year, however, he was expelled from the University of Paris for siding with Pope Boniface VIII⁴⁶ in his feud with King Philip IV of France⁴⁷ over the taxation of church property.

24 https://en.wikipedia.org/wiki/Religious_habit

25 <https://en.wikipedia.org/wiki/Dumfries>

26 [https://en.wikipedia.org/wiki/Custos_\(Franciscans\)](https://en.wikipedia.org/wiki/Custos_(Franciscans))

27 [https://en.wikipedia.org/wiki/Priesthood_\(Catholic_Church\)](https://en.wikipedia.org/wiki/Priesthood_(Catholic_Church))

28 https://en.wikipedia.org/wiki/St_Andrew%27s_Priory,_Northampton

29 <https://en.wikipedia.org/wiki/Northampton>

30 [https://en.wikipedia.org/wiki/Canon_law_\(Catholic_Church\)](https://en.wikipedia.org/wiki/Canon_law_(Catholic_Church))

31 https://en.wikipedia.org/wiki/Holy_orders

32 https://en.wikipedia.org/wiki/Duns,_Scottish_Borders

33 https://en.wikipedia.org/wiki/Studium_generale

34 https://en.wikipedia.org/wiki/Medieval_university

35 https://en.wikipedia.org/wiki/St_Ebbe%27s_Church,_Oxford

36 https://en.wikipedia.org/wiki/St_Aldate%27s,_Oxford

37 https://en.wikipedia.org/wiki/University_of_Paris

38 <https://en.wikipedia.org/wiki/Oxford>

39 https://en.wikipedia.org/wiki/Provincial_superior

40 https://en.wikipedia.org/wiki/Ecclesiastical_province

41 https://en.wikipedia.org/wiki/Bishop_of_Lincoln

42 [https://en.wikipedia.org/wiki/Confession_\(religion\)](https://en.wikipedia.org/wiki/Confession_(religion))

43 <https://en.wikipedia.org/wiki/Bridlington>

44 https://en.wikipedia.org/wiki/Peter_Lombard

45 <https://en.wikipedia.org/wiki/Sentences>

46 https://en.wikipedia.org/wiki/Pope_Boniface_VIII

47 https://en.wikipedia.org/wiki/Philip_IV_of_France

Duns Scotus was back in Paris before the end of 1304, probably returning in May. He continued lecturing there until, for reasons that are still mysterious, he was dispatched to the Franciscan *studium* at Cologne⁴⁸, probably in October 1307. According to the 15th-century writer William Vorilong⁴⁹, his departure was sudden and unexpected. He was relaxing or talking with students in the *Prato clericorum* or *Pre-aux-Clercs* – an open area of the Rive Gauche⁵⁰ used by scholars for recreation – when orders arrived from the Franciscan Minister General⁵¹; Scotus left immediately, taking few or no personal belongings.^[19]

Duns Scotus died unexpectedly in Cologne in November 1308; the date of his death is traditionally given as 8 November. He is buried in the Church of the Friars Minor⁵² there. His sarcophagus⁵³ bears the Latin poem:

”Scotia me genuit.

Anglia me suscepit.

Gallia me docuit.

Colonia me tenet.”

(Scotland brought me forth.

England sustained me.

France taught me.

Cologne holds me.)

The story about Duns Scotus being buried alive⁵⁴, in the absence of his servant who alone knew of his susceptibility to coma, is probably a myth.^[20] It was reported by Francis Bacon⁵⁵ in his *Historia vitae et mortis*.^[21]

The colophon⁵⁶ of Codex 66 of Merton College, Oxford⁵⁷ says that Scotus was also at Cambridge⁵⁸.

48 <https://en.wikipedia.org/wiki/Cologne>

49 https://en.wikipedia.org/wiki/William_Vorilong

50 https://en.wikipedia.org/wiki/Rive_Gauche

51 [https://en.wikipedia.org/wiki/Minister_General_\(Franciscan\)](https://en.wikipedia.org/wiki/Minister_General_(Franciscan))

52 [https://en.wikipedia.org/wiki/Minoritenkirche_\(Cologne\)](https://en.wikipedia.org/wiki/Minoritenkirche_(Cologne))

53 <https://en.wikipedia.org/wiki/Sarcophagus>

54 https://en.wikipedia.org/wiki/Premature_burial

55 https://en.wikipedia.org/wiki/Francis_Bacon

56 [https://en.wikipedia.org/wiki/Colophon_\(publishing\)](https://en.wikipedia.org/wiki/Colophon_(publishing))

57 https://en.wikipedia.org/wiki/Merton_College,_Oxford

58 <https://en.wikipedia.org/wiki/Cambridge>

1.2 Work

Scotus's great work is his commentary on the *Sentences*⁵⁹ of Peter Lombard⁶⁰, which contains nearly all the philosophical views and arguments for which he is well known, including the univocity of being⁶¹, the formal distinction⁶², less than numerical unity, individual nature or "thisness" (haecceity⁶³), his critique of illuminationism⁶⁴ and his renowned argument for the existence of God. His commentary exists in several versions. The standard version is the *Ordinatio* (also known as the *Opus oxoniense*), a revised version of lectures he gave as a bachelor at Oxford. The initial revision was probably begun in the summer of 1300 – see the remarks in the Prologue, question 2, alluding to the Battle of Wadi al-Khazandar⁶⁵ in 1299, news of which probably reached Oxford in the summer of 1300. It was still incomplete when Scotus left for Paris in 1302. The original lectures were also transcribed and recently published as the *Lectura*.^[22]

The two other versions of the work are Scotus's notes for the Oxford lectures, recently published as the *Lectura*, the first book of which was probably written in Oxford in the late 1290s,^[23] and the *Reportatio parisiensis* (or *Opus parisiense*), consisting of transcriptions of the lectures on the *Sentences* given by Scotus when he was in Paris. A *reportatio* is a student report or transcription of the original lecture of a master. A version that has been checked by the master himself is known as a *reportatio examinata*.

By the time of Scotus, these 'commentaries' on the *Sentences* were no longer literal commentaries. Instead, Peter Lombard⁶⁶'s original text was used as a starting point for highly original discussions on topics of theological or philosophical interest.^[24] For example, Book II Distinction 2, about the location of angels, is a starting point for a complex discussion about continuous motion, and whether the same thing can be in two different places at the same time (bilocation⁶⁷). In the same book, Distinction 3, he uses the question of how angels can be different from one another, given that they have no material bodies, to investigate the difficult question of individuation⁶⁸ in general.

59 <https://en.wikipedia.org/wiki/Sentences>

60 https://en.wikipedia.org/wiki/Peter_Lombard

61 https://en.wikipedia.org/wiki/Univocity_of_being

62 https://en.wikipedia.org/wiki/Formal_distinction

63 <https://en.wikipedia.org/wiki/Haecceity>

64 https://en.wikipedia.org/wiki/Divine_illumination

65 https://en.wikipedia.org/wiki/Battle_of_Wadi_al-Khazandar

66 https://en.wikipedia.org/wiki/Peter_Lombard

67 <https://en.wikipedia.org/wiki/Bilocation>

68 <https://en.wikipedia.org/wiki/Individuation>

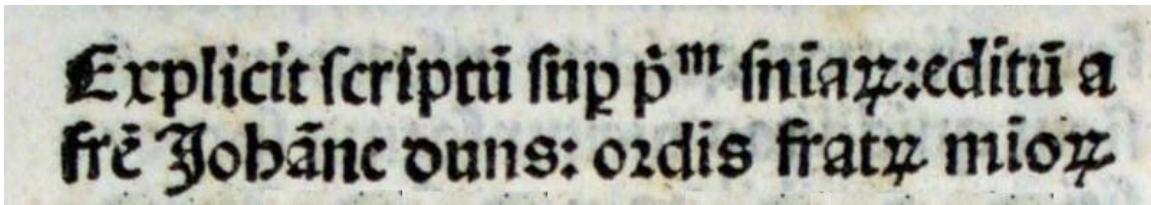


Figure 2 Colophon from the edition of Scotus's *Sentences* commentary edited by Thomas Penketh (died 1487) and Bartolomeo Bellati (died 1479), printed by Johannes de Colonia and Johannes Manthen, Venice in 1477. It reads *Explicit Scriptum super Primum Sententiarum: editum a fratre Johanne Duns: ordinis fratrum minorum*. Printed versions of scholastic manuscripts became popular in the late fifteenth century.

Scotus wrote purely philosophical and logical works at an early stage of his career, consisting of commentaries on Aristotle's *Organon*⁶⁹. These are the *Questions* on Porphyry⁷⁰'s *Isagoge*⁷¹ and Aristotle's *Categories*⁷², *Peri hermeneias*⁷³, and *De sophisticis elenchis*⁷⁴, probably dating to around 1295.^[25] His commentary on Aristotle's *Metaphysics*⁷⁵ was probably written in stages, the first version having started around 1297,^[23] with significant additions and amendments possibly after the completion of the main body of the *Ordinatio*.^[26] His *Expositio* on the *Metaphysics* was lost for centuries but was recently rediscovered and edited by Giorgio Pini.^[27]

In addition, there are 46 short disputations called *Collationes*, probably dating from 1300 to 1305; a work in natural theology (*De primo principio*); and his *Quaestiones Quodlibetales*, probably dating to Advent 1306 or Lent 1307.

A number of works once believed to have been written by Scotus are now known to have been misattributed. There were already concerns about this within two centuries of his death, when the 16th-century logician Jacobus Naveros⁷⁶ noted inconsistencies between these texts and his commentary on the *Sentences*, leading him to doubt whether he had written any logical works at all.^[28] The *Questions on the Prior Analytics* (*In Librum Priorum Analyticorum Aristotelis Quaestiones*) were also discovered to be mistakenly attributed.^{[citation needed]⁷⁷} In 1922, Grabmann⁷⁸ showed that the logical work *De modis significandi* was actually by Thomas of Erfurt⁷⁹, a 14th-century logician of the modist school⁸⁰. Thus the claim that Martin Heidegger⁸¹ wrote his habilitation⁸² thesis on Scotus^[29] is only half true, as the second part is actually based on the work by Erfurt.^[30]

69 <https://en.wikipedia.org/wiki/Organon>

70 [https://en.wikipedia.org/wiki/Porphyry_\(philosopher\)](https://en.wikipedia.org/wiki/Porphyry_(philosopher))

71 <https://en.wikipedia.org/wiki/Isagoge>

72 [https://en.wikipedia.org/wiki/Categories_\(Aristotle\)](https://en.wikipedia.org/wiki/Categories_(Aristotle))

73 https://en.wikipedia.org/wiki/De_Interpretatione

74 https://en.wikipedia.org/wiki/Sophistical_Refutations

75 [https://en.wikipedia.org/wiki/Metaphysics_\(Aristotle\)](https://en.wikipedia.org/wiki/Metaphysics_(Aristotle))

76 https://en.wikipedia.org/wiki/Jacobus_Naveros

78 https://en.wikipedia.org/wiki/Martin_Grabmann

79 https://en.wikipedia.org/wiki/Thomas_of_Erfurt

80 <https://en.wikipedia.org/wiki/Modistae>

81 https://en.wikipedia.org/wiki/Martin_Heidegger

82 <https://en.wikipedia.org/wiki/Habilitation>

1.3 Metaphysics

1.3.1 Realism

Scotus is generally considered to be a realist⁸³ (as opposed to a nominalist⁸⁴) in that he treated universals as real. He attacks a position close to that later defended by Ockham⁸⁵, arguing that things have a common nature – for example the humanity common to Socrates⁸⁶, Plato⁸⁷, and Plutarch⁸⁸.

1.3.2 Univocity of being

He followed Aristotle⁸⁹ in asserting that the subject matter of metaphysics⁹⁰ is "being qua being" (*ens in quantum ens*). Being in general (*ens in communi*), as a univocal notion, was for him the first object of the intellect.^[31] The doctrine of the univocity of being⁹¹ implies the denial of any real distinction between essence⁹² and existence⁹³. Aquinas⁹⁴ had argued that in all finite being (i.e. all except God) the essence of a thing is distinct from its existence. Scotus rejected the distinction. Scotus argued that we cannot conceive of what it is to be something, without conceiving it as existing. We should not make any distinction between whether a thing exists (*si est*) and what it is (*quid est*) for we never know whether something exists unless we have some concept of what we know to exist.^[32]

1.3.3 Individuation

Scotus elaborates a distinct view on hylomorphism⁹⁵, with three important strong theses that differentiate him. He held: 1) that there exists matter⁹⁶ that has no form whatsoever, or prime matter, as the stuff underlying all change, against Aquinas (cf. his *Quaestiones in Metaphysicam* 7, q. 5; *Lectura* 2, d. 12, q. un.), 2) that not all created substances are composites of form and matter (cf. *Lectura* 2, d. 12, q. un., n. 55), that is, that purely spiritual substances do exist, and 3) that one and the same substance can have more than one substantial form – for instance, humans have at least two substantial forms, the soul and the form of the body (*forma corporeitas*) (cf. *Ordinatio* 4, d. 11, q. 3, n. 54). He argued for an original principle of individuation⁹⁷ (cf. *Ordinatio* 2, d. 3, pars 1, qq. 1–6), the "haecceity"⁹⁸ as the ultimate unity of a unique individual (*haecceitas*, an entity's

83 https://en.wikipedia.org/wiki/Philosophical_realism

84 <https://en.wikipedia.org/wiki/Nominalist>

85 https://en.wikipedia.org/wiki/William_of_Ockham

86 <https://en.wikipedia.org/wiki/Socrates>

87 <https://en.wikipedia.org/wiki/Plato>

88 <https://en.wikipedia.org/wiki/Plutarch>

89 <https://en.wikipedia.org/wiki/Aristotle>

90 <https://en.wikipedia.org/wiki/Metaphysics>

91 https://en.wikipedia.org/wiki/Univocity_of_being

92 <https://en.wikipedia.org/wiki/Essence>

93 <https://en.wikipedia.org/wiki/Existence>

94 <https://en.wikipedia.org/wiki/Aquinas>

95 <https://en.wikipedia.org/wiki/Hylomorphism>

96 <https://en.wikipedia.org/wiki/Matter>

97 <https://en.wikipedia.org/wiki/Individuation>

98 <https://en.wikipedia.org/wiki/Haecceity>

'thisness'), as opposed to the common nature⁹⁹ (*natura communis*) feature existing in any number of individuals. For Scotus, the axiom stating that only the individual exists is a dominating principle of the understanding of reality. For the apprehension of individuals, an intuitive cognition is required, which gives us the present existence or the non-existence of an individual, as opposed to abstract cognition. Thus the human soul, in its separated state from the body, will be capable of knowing the spiritual intuitively.

1.3.4 Formal distinction

Like other realist philosophers of the period (such as Aquinas and Henry of Ghent¹⁰⁰) Scotus recognised the need for an intermediate distinction that was not merely conceptual but not fully real or mind-dependent either. Scotus argued for a formal distinction¹⁰¹ (*distinctio formalis a parte rei*), which holds between entities which are inseparable and indistinct in reality but whose definitions are not identical. For example, the personal properties of the Trinity¹⁰² are formally distinct from the Divine essence. Similarly, the distinction between the 'thisness' or *haecceity* of a thing is intermediate between a real and a conceptual distinction.^[33] There is also a formal distinction between the divine attributes and the powers of the soul.

1.4 Theology



Part of a series¹⁰³ on
Catholic philosophy¹⁰⁴
 Aquinas¹⁰⁵, Scotus, and Ockham¹⁰⁶
Ethics¹⁰⁷

99 [https://en.wikipedia.org/wiki/Nature_\(philosophy\)](https://en.wikipedia.org/wiki/Nature_(philosophy))

100 https://en.wikipedia.org/wiki/Henry_of_Ghent

101 https://en.wikipedia.org/wiki/Formal_distinction

102 <https://en.wikipedia.org/wiki/Trinity>

103 https://en.wikipedia.org/wiki/Category:Catholic_philosophers

104 https://en.wikipedia.org/wiki/Christian_philosophy

105 https://en.wikipedia.org/wiki/Thomas_Aquinas

106 https://en.wikipedia.org/wiki/William_of_Ockham

107 https://en.wikipedia.org/wiki/Catholic_moral_theology

- Cardinal virtues¹⁰⁸
- Just price¹⁰⁹
- Just war¹¹⁰
- Principle of Double Effect¹¹¹
- Probabilism¹¹²
- Natural law¹¹³
- Personalism¹¹⁴
- Social teaching¹¹⁵
- Virtue ethics¹¹⁶

Metaphysics¹¹⁷

- Conceptualism¹¹⁸
- Realism¹¹⁹
- Moderate realism¹²⁰
- Nominalism¹²¹
- Quiddity¹²² (essence¹²³ / nature¹²⁴)
- Haecceity¹²⁵
- Quinque Viae¹²⁶
- Predestination¹²⁷
- Free Will¹²⁸
- Divine Attributes¹²⁹

Schools

108 https://en.wikipedia.org/wiki/Cardinal_virtues

109 https://en.wikipedia.org/wiki/Just_price

110 https://en.wikipedia.org/wiki/Just_war_theory#Catholic_doctrine

111 https://en.wikipedia.org/wiki/Principle_of_Double_Effect

112 https://en.wikipedia.org/wiki/Catholic_probabilism

113 https://en.wikipedia.org/wiki/Natural_law#Catholic_natural_law_jurisprudence

114 https://en.wikipedia.org/wiki/Catholic_personalism

115 https://en.wikipedia.org/wiki/Catholic_social_teaching

116 https://en.wikipedia.org/wiki/Virtue_ethics

117 <https://en.wikipedia.org/wiki/Metaphysics>

118 <https://en.wikipedia.org/wiki/Conceptualism>

119 https://en.wikipedia.org/wiki/Philosophical_realism

120 https://en.wikipedia.org/wiki/Moderate_realism

121 <https://en.wikipedia.org/wiki/Nominalism>

122 <https://en.wikipedia.org/wiki/Quiddity>

123 <https://en.wikipedia.org/wiki/Essence>

124 [https://en.wikipedia.org/wiki/Nature_\(philosophy\)](https://en.wikipedia.org/wiki/Nature_(philosophy))

125 <https://en.wikipedia.org/wiki/Haecceity>

126 https://en.wikipedia.org/wiki/Quinque_Viae

127 <https://en.wikipedia.org/wiki/Predestination>

128 https://en.wikipedia.org/wiki/Free_Will#In_theology

129 https://en.wikipedia.org/wiki/Attributes_of_God_in_Christianity

- Augustinianism¹³⁰
- Cartesianism¹³¹
- Molinism¹³²
- Nouvelle théologie¹³³
- Occamism¹³⁴
- Salamanca¹³⁵
- Scholasticism¹³⁶
 - Neo-scholasticism¹³⁷
- Scotism¹³⁸
- Thomism¹³⁹

Philosophers¹⁴⁰

130 <https://en.wikipedia.org/wiki/Augustinianism>
131 <https://en.wikipedia.org/wiki/Cartesianism>
132 <https://en.wikipedia.org/wiki/Molinism>
133 https://en.wikipedia.org/wiki/Nouvelle_th%C3%A9ologie
134 <https://en.wikipedia.org/wiki/Occamism>
135 https://en.wikipedia.org/wiki/School_of_Salamanca
136 <https://en.wikipedia.org/wiki/Scholasticism>
137 <https://en.wikipedia.org/wiki/Neo-scholasticism>
138 <https://en.wikipedia.org/wiki/Scotism>
139 <https://en.wikipedia.org/wiki/Thomism>
140 https://en.wikipedia.org/wiki/List_of_Catholic_philosophers_and_theologians

Ancient

- Ambrose¹⁴¹
- Athanasius of Alexandria¹⁴²
- Augustine of Hippo¹⁴³
- Benedict of Nursia¹⁴⁴
- Boethius¹⁴⁵
- Clement of Alexandria¹⁴⁶
- Cyprian¹⁴⁷
- Cyril of Alexandria¹⁴⁸
- Gregory of Nazianzus¹⁴⁹
- Gregory of Nyssa¹⁵⁰
- Irenaeus¹⁵¹
- Jerome¹⁵²
- John Cassian¹⁵³
- John Chrysostom¹⁵⁴
- John Climacus¹⁵⁵
- John of Damascus¹⁵⁶
- Justin Martyr¹⁵⁷
- Maximus the Confessor¹⁵⁸
- Pseudo-Dionysius the Areopagite¹⁵⁹
- Origen¹⁶⁰
- Paul the Apostle¹⁶¹
- Tertullian¹⁶²

141 <https://en.wikipedia.org/wiki/Ambrose>

142 https://en.wikipedia.org/wiki/Athanasius_of_Alexandria

143 https://en.wikipedia.org/wiki/Augustine_of_Hippo

144 https://en.wikipedia.org/wiki/Benedict_of_Nursia

145 <https://en.wikipedia.org/wiki/Boethius>

146 https://en.wikipedia.org/wiki/Clement_of_Alexandria

147 <https://en.wikipedia.org/wiki/Cyprian>

148 https://en.wikipedia.org/wiki/Cyril_of_Alexandria

149 https://en.wikipedia.org/wiki/Gregory_of_Nazianzus

150 https://en.wikipedia.org/wiki/Gregory_of_Nyssa

151 <https://en.wikipedia.org/wiki/Irenaeus>

152 <https://en.wikipedia.org/wiki/Jerome>

153 https://en.wikipedia.org/wiki/John_Cassian

154 https://en.wikipedia.org/wiki/John_Chrysostom

155 https://en.wikipedia.org/wiki/John_Climacus

156 https://en.wikipedia.org/wiki/John_of_Damascus

157 https://en.wikipedia.org/wiki/Justin_Martyr

158 https://en.wikipedia.org/wiki/Maximus_the_Confessor

159 https://en.wikipedia.org/wiki/Pseudo-Dionysius_the_Areopagite

160 <https://en.wikipedia.org/wiki/Origen>

161 [">https://en.wikipedia.org/wiki/Paul_the_Apostle](https://en.wikipedia.org/wiki/Paul_the_Apostle)

162 <https://en.wikipedia.org/wiki/Tertullian>

Postclassical

- Peter Abelard¹⁶³
- Albertus Magnus¹⁶⁴
- Anselm of Canterbury¹⁶⁵
- Roger Bacon¹⁶⁶
- Bede¹⁶⁷
- Bernard of Clairvaux¹⁶⁸
- Berengar of Tours¹⁶⁹
- Bonaventure¹⁷⁰
- Catherine of Siena¹⁷¹
- Duns Scotus
- John Scotus Eriugena¹⁷²
- Pope Gregory I¹⁷³
- Gregory of Rimini¹⁷⁴
- Giles of Rome¹⁷⁵
- Hildegard of Bingen¹⁷⁶
- Hugh of Saint Victor¹⁷⁷
- Isidore of Seville¹⁷⁸
- James of Viterbo¹⁷⁹
- Jean Buridan¹⁸⁰
- Meister Eckhart¹⁸¹
- Nicholas of Cusa¹⁸²
- Nicole Oresme¹⁸³
- Paul of Venice¹⁸⁴
- Paschasius Radbertus¹⁸⁵
- Peter Lombard¹⁸⁶
- Roscellinus¹⁸⁷
- Symeon the New Theologian¹⁸⁸
- Thierry of Chartres¹⁸⁹
- Thomas Aquinas¹⁹⁰
- William of Ockham¹⁹¹

163 https://en.wikipedia.org/wiki/Peter_Abelard

164 https://en.wikipedia.org/wiki/Albertus_Magnus

165 https://en.wikipedia.org/wiki/Anselm_of_Canterbury

166 https://en.wikipedia.org/wiki/Roger_Bacon

167 <https://en.wikipedia.org/wiki/Bede>

168 https://en.wikipedia.org/wiki/Bernard_of_Clairvaux

169 https://en.wikipedia.org/wiki/Berengar_of_Tours

170 <https://en.wikipedia.org/wiki/Bonaventure>

171 https://en.wikipedia.org/wiki/Catherine_of_Siena

172 https://en.wikipedia.org/wiki/John_Scotus_Eriugena

173 https://en.wikipedia.org/wiki/Pope_Gregory_I

174 https://en.wikipedia.org/wiki/Gregory_of_Rimini

175 https://en.wikipedia.org/wiki/Giles_of_Rome

176 https://en.wikipedia.org/wiki/Hildegard_of_Bingen

177 https://en.wikipedia.org/wiki/Hugh_of_Saint_Victor

178 https://en.wikipedia.org/wiki/Isidore_of_Seville

179 https://en.wikipedia.org/wiki/James_of_Viterbo

180 https://en.wikipedia.org/wiki/Jean_Buridan

-
- 181 https://en.wikipedia.org/wiki/Meister_Eckhart
 - 182 https://en.wikipedia.org/wiki/Nicholas_of_Cusa
 - 183 https://en.wikipedia.org/wiki/Nicole_Oresme
 - 184 https://en.wikipedia.org/wiki/Paul_of_Venice
 - 185 https://en.wikipedia.org/wiki/Paschasius_Radbertus
 - 186 https://en.wikipedia.org/wiki/Peter_Lombard
 - 187 <https://en.wikipedia.org/wiki/Roscellinus>
 - 188 https://en.wikipedia.org/wiki/Symeon_the_New_Theologian
 - 189 https://en.wikipedia.org/wiki/Thierry_of_Chartres
 - 190 https://en.wikipedia.org/wiki/Thomas_Aquinas
 - 191 https://en.wikipedia.org/wiki/William_of_Ockham

Modern

- Arnauld¹⁹²
- Azpilcueta¹⁹³
- Bellarmine¹⁹⁴
- Bossuet¹⁹⁵
- Brentano¹⁹⁶
- Vico¹⁹⁷
- Botero¹⁹⁸
- Cajetan¹⁹⁹
- Cortés²⁰⁰
- Sales²⁰¹
- Soto²⁰²
- Descartes²⁰³
- Erasmus²⁰⁴
- Fénelon²⁰⁵
- Gracián²⁰⁶
- Kołataj²⁰⁷
- Krasicki²⁰⁸
- La Mennais²⁰⁹
- Liguori²¹⁰
- Malebranche²¹¹
- Maistre²¹²
- Meinong²¹³
- Mercado²¹⁴
- Molina²¹⁵
- More²¹⁶
- Newman²¹⁷
- Pascal²¹⁸
- Chateaubriand²¹⁹
- Rosmini²²⁰
- Ávila²²¹
- Suárez²²²
- Vitoria²²³

192 https://en.wikipedia.org/wiki/Antoine_Arnauld

193 https://en.wikipedia.org/wiki/Mart%C3%ADn_de_Azpilcueta

194 https://en.wikipedia.org/wiki/Robert_Bellarmine

195 https://en.wikipedia.org/wiki/Jacques-B%C3%A9nigne_Bossuet

196 https://en.wikipedia.org/wiki/Franz_Brentano

197 https://en.wikipedia.org/wiki/Giambattista_Vico

198 https://en.wikipedia.org/wiki/Giovanni_Botero

199 https://en.wikipedia.org/wiki/Thomas_Cajetan

200 https://en.wikipedia.org/wiki/Juan_Donoso_Cort%C3%A9s

201 https://en.wikipedia.org/wiki/Francis_de_Sales

202 https://en.wikipedia.org/wiki/Domingo_de_Soto

203 https://en.wikipedia.org/wiki/Ren%C3%A9_Descartes

204 <https://en.wikipedia.org/wiki/Erasmus>

205 https://en.wikipedia.org/wiki/Fran%C3%A7ois_F%C3%A9nelon

206 https://en.wikipedia.org/wiki/Baltasar_Grac%C3%ADa

207 https://en.wikipedia.org/wiki/Hugo_Ko%C5%82%C5%82%C4%85taj

208 https://en.wikipedia.org/wiki/Ignacy_Krasicki
209 https://en.wikipedia.org/wiki/F%C3%A9licit%C3%A9_de_La_Mennais
210 https://en.wikipedia.org/wiki/Alphonsus_Liguori
211 https://en.wikipedia.org/wiki/Nicolas_Malebranche
212 https://en.wikipedia.org/wiki/Joseph_de_Maistre
213 https://en.wikipedia.org/wiki/Alexius_Meinong
214 https://en.wikipedia.org/wiki/Tom%C3%A1s_de_Mercado
215 https://en.wikipedia.org/wiki/Luis_de_Molina
216 https://en.wikipedia.org/wiki/Thomas_More
217 https://en.wikipedia.org/wiki/John_Henry_Newman
218 https://en.wikipedia.org/wiki/Blaise_Pascal
219 https://en.wikipedia.org/wiki/Fran%C3%A7ois-Ren%C3%A9_de_Chateaubriand
220 https://en.wikipedia.org/wiki/Antonio_Rosmini
221 https://en.wikipedia.org/wiki/Teresa_of_%C3%81vila
222 https://en.wikipedia.org/wiki/Francisco_Su%C3%A1rez
223 https://en.wikipedia.org/wiki/Francisco_de_Vitoria

Contemporary

- Mortimer J. Adler²²⁴
- Peter Geach²²⁵
- G. E. M. Anscombe²²⁶
- Pope Benedict XVI²²⁷
- Maurice Blondel²²⁸
- G. K. Chesterton²²⁹
- Yves Congar²³⁰
- Frederick Copleston²³¹
- Henri de Lubac²³²
- John Finnis²³³
- Reginald Garrigou-Lagrange²³⁴
- Étienne Gilson²³⁵
- René Girard²³⁶
- Gustavo Gutiérrez²³⁷
- Nicolás Gómez Dávila²³⁸
- Romano Guardini²³⁹
- John Haldane²⁴⁰
- Dietrich von Hildebrand²⁴¹
- Pope John Paul II²⁴²
- Bernard Lonergan²⁴³
- Alasdair MacIntyre²⁴⁴
- Gabriel Marcel²⁴⁵
- Jean-Luc Marion²⁴⁶
- Jacques Maritain²⁴⁷
- Marshall McLuhan²⁴⁸
- Emmanuel Mounier²⁴⁹
- Josef Pieper²⁵⁰
- Karl Rahner²⁵¹
- Edith Stein²⁵²
- Charles Taylor²⁵³
- Hans Urs von Balthasar²⁵⁴

224 https://en.wikipedia.org/wiki/Mortimer_J._Adler

225 https://en.wikipedia.org/wiki/Peter_Geach

226 https://en.wikipedia.org/wiki/G._E._M._Anscombe

227 https://en.wikipedia.org/wiki/Pope_Benedict_XVI

228 https://en.wikipedia.org/wiki/Maurice_Blondel

229 https://en.wikipedia.org/wiki/G._K._Chesterton

230 https://en.wikipedia.org/wiki/Yves_Congar

231 https://en.wikipedia.org/wiki/Frederick_Copleston

232 https://en.wikipedia.org/wiki/Henri_de_Lubac

233 https://en.wikipedia.org/wiki/John_Finnis

234 https://en.wikipedia.org/wiki/Reginald_Garrigou-Lagrange

235 https://en.wikipedia.org/wiki/%C3%89tienne_Gilson

236 https://en.wikipedia.org/wiki/Ren%C3%A9_Girard

237 https://en.wikipedia.org/wiki/Gustavo_Guti%C3%A9rrez

238 https://en.wikipedia.org/wiki/Nicol%C3%A1s_G%C3%B3mez_D%C3%A1vila

239 https://en.wikipedia.org/wiki/Romano_Guardini

240 [https://en.wikipedia.org/wiki/John_Haldane_\(philosopher\)](https://en.wikipedia.org/wiki/John_Haldane_(philosopher))



- v²⁵⁷
- t²⁵⁸
- e²⁵⁹

1.4.1 Voluntarism

Scotus was an Augustinian-Franciscan theologian.^[34] He is usually associated with theological voluntarism²⁶⁰, the tendency to emphasize God's will and human freedom in all philosophical issues. The main difference between Aquinas²⁶¹'s rational theology and that of Scotus is that Scotus believed certain predicates may be applied univocally – with exactly the same meaning – to God and creatures, whereas Aquinas insisted that this is impossible and that only analogical predication can be employed, in which a word as applied to God has a meaning different from, although related to, the meaning of that same word as applied to creatures. Duns struggled throughout his works in demonstrating his univocity theory against Aquinas's analogy doctrine.

Scotus gave the lecture, *Lectura I* 39, during 1297–1299 to refute the view that everything is necessary and immutable. He claims that the aim of this lecture has two points (*Lectura I* 39, §31): first, to consider the contingency in what is (*de contingentia in entibus*); second, to consider how God's certain knowledge is compatible with the contingency of things. Scotus tries to defend the validity of Christian theology against the attack of ancient philosophers. The main argument is unpacked in *Lectura I* 39, §§49–53. Scotus argues that a necessary being (God) is able to have contingent knowledge, and that although this knowledge is contingent, it is not necessarily mutable and temporal by that very fact. In *Lectura I* 39 §1, Scotus asks, "whether God has determinate knowledge of things according to every aspect of their existence, as according to being in the future." He presents a counterview which claims

241 https://en.wikipedia.org/wiki/Dietrich_von_Hildebrand

242 https://en.wikipedia.org/wiki/Pope_John_Paul_II

243 https://en.wikipedia.org/wiki/Bernard_Lonergan

244 https://en.wikipedia.org/wiki/Alasdair_MacIntyre

245 https://en.wikipedia.org/wiki/Gabriel_Marcel

246 https://en.wikipedia.org/wiki/Jean-Luc_Marion

247 https://en.wikipedia.org/wiki/Jacques_Maritain

248 https://en.wikipedia.org/wiki/Marshall_McLuhan

249 https://en.wikipedia.org/wiki/Emmanuel_Mounier

250 https://en.wikipedia.org/wiki/Josef_Pieper

251 https://en.wikipedia.org/wiki/Karl_Rahner

252 https://en.wikipedia.org/wiki/Edith_Stein

253 [https://en.wikipedia.org/wiki/Charles_Taylor_\(philosopher\)](https://en.wikipedia.org/wiki/Charles_Taylor_(philosopher))

254 https://en.wikipedia.org/wiki/Hans_Urs_von_Balthasar

255 <https://en.wikipedia.org/wiki/Portal:Catholicism>

256 <https://en.wikipedia.org/wiki/Portal:Philosophy>

257 https://en.wikipedia.org/wiki/Template:Catholic_philosophy

258 https://en.wikipedia.org/wiki/Template_talk:Catholic_philosophy

259 https://en.wikipedia.org/w/index.php?title=Template:Catholic_philosophy&action=edit

260 https://en.wikipedia.org/wiki/Medieval_theological_voluntarism

261 <https://en.wikipedia.org/wiki/Aquinas>

that God cannot have determinate knowledge of the future. To support this counterview, he uses Aristotle's *De Interpretatione* IX. In the following arguments, Scotus does not attempt to contradict Aristotle. He does not affirm or reject the ideas of Aristotle. The only issue he argues against is the proposition that God cannot have determinate knowledge of the future. Scotus appears to try to fully demonstrate that Aristotle's text is not contradictory to the Christian doctrine of God. Scotus argues that God wills with one single volition (*unica volitione*) whatever he wills. God has one volition *ad intra*, but this one volition can be related to many opposite things *ad extra*. God can simultaneously will one thing at time 1 and the opposite thing at time 2. There are various possible interpretations of Aristotle's *De Interpretatione* IX. For example, John Buridan (ca. 1300–1362) thought the Scotistic contingency theory was an Aristotelian view^[262]. Buridan's judgment is all the more possible because of at least four reasons: (1) Aristotle's *De Interpretatione* IX, 19a23–25 can be interpreted like the Scotistic contingency theory; (2) Scotus himself does not refute Aristotle's *De Interpretatione* IX in *Lectura I* 39 §§49–53; (3) Scotus, rather, tries to formulate his contingency theory with the help of other works of Aristotle in *Lectura I* 39 §§51, 54; (4) Scotus introduces the diachronic feature of God's volition to his contingency theory as well as the synchronic feature.^[35]

1.4.2 Metaphysical argument for the existence of God

Duns Scotus argued that it is better to construct a metaphysical argument for the existence of God, rather than the more common physical argument from motion^[36] favoured by Aquinas,^[37] following Aristotle.^[38] Though the version in *De Primo Principio* is the most complete and final version, the *Ordinatio* proof is usually offered. However, the *De Primo* version is fascinating and worth looking into for a wider understanding of the argument as well as Scotus's metaphysical underpinnings for his argument for God's existence, but the *Ordinatio* version will be followed here. Briefly, Scotus begins his proof by explaining that there are two angles we must take in arguing for the existence of an actually infinite being. First from the view of the Relative Properties of God and second from the Absolute Properties of God. Relative properties are those which are predicable of God in relation to creation; absolute properties are those which belong to God whether or not He chose to create. Under the first heading of Relative Properties, Scotus argues for a triple primacy of efficiency, finality and pre-eminence. From there he shows that one primacy implies the others, and finally there can only be one nature that is the First Efficient Cause, Ultimate End, and the Most Perfect Nature. From there the Subtle Doctor discusses the Absolute Properties of God. The First Being is intellectual and volitional, and the intellect and will are identical with the essence of this supreme nature. The First Being is also infinite being. While discussing the infinity of God, Scotus resurrects Anselm's argument and responds to the criticism that Anselm makes an illicit leap from concept to reality. Finally, he gives a definite answer of "yes" to the question of whether there exists an actually infinite being. The very next question of the *Ordinatio* deals with the unicity of the nature thus proved to exist. However, the *De Primo Principio* version concludes with this argument.

The proof for the conclusion that "some efficient cause is simply first such that neither can it be an effect nor can it, by virtue of something other than itself, cause an effect" *Ordinatio* I.2.43^[39] runs like this:

262 <https://en.wikipedia.org/wiki/Aristotelianism>

1. Something can be produced.
2. It is produced either by itself, nothing, or another.
3. Not by nothing, for nothing causes nothing.
4. Not by itself, for an effect never causes itself.
5. Therefore, by another; call it *A*.
6. If *A* is first, then we have reached the conclusion.
7. If *A* is not first, but also an effect, we return to 2). *A* is produced either by itself, nothing, or another.
8. From 3) and 4), we say another, *B*. The ascending series will either continue infinitely or we finally reach something which has nothing prior to it.
9. An infinite ascending series is impossible.
10. Therefore, etc.

Scotus acknowledges two objections and deals with them accordingly. First is that he begs the question in assuming a first in the series. Here he argues that while many admit an infinite regress in an accidentally ordered series of causes, no philosopher admits infinite regress in an essentially ordered series. Scotus explains the differences between the two and offers proofs for the conclusion that an infinity of essentially ordered causes in a series is impossible.^[40] Second, it is objected that his proof is not really a demonstration since it begins with a contingent premise. That something is produced is contingent and not necessary. Therefore, the proof proceeds from a contingent and not a necessary premise. Scotus says that while that is true, it is utterly manifest that things are produced or effected. But in order to respond, Scotus makes a modal move and reworks the argument. Now he argues from the possibility of production. "It is possible that something can be produced" is a necessary proposition. From there he is able to conclude that it is possible that the first efficient cause exists, and if it is possible that it exists, then it does exist. He asserts that the last claim will be proved later in the argument.^[41] In the *Lectura* proof, Scotus argues the following way:

Although beings different from God are actually contingent with respect to their factual existence, nevertheless, they are not with respect to their possible existence. Hence, those entities which are called contingent with respect to their factual existence are necessary with respect to their possible existence – for instance, although "There exists a man" is contingent, nevertheless "It is possible that he exists" is necessary, because his existence does not include any contradiction. Therefore, "Something – different from God – is possible" is necessary, because being is divided into the contingent and the necessary. Just as necessity belongs to a necessary being in virtue of its condition or its quiddity, so possibility belongs to a possible being in virtue of its quiddity. If the first argument is alternatively qualified with the notion of ontological possibility, then we have necessary propositions as follows: It is possible that there is something different from God – it is not of itself (because then it would not be the case that it were possible), nor from nothing. Therefore, it is possible that it is from something else. Either it is possible that the other agent acts by virtue of itself – and not by virtue of something else, not being from something else – or it is not possible. If so, then it is possible that there is a first agent, and if it [is] possible that it exists, then it exists, just as we have proved before. If not and if there is no infinite regress, then the argument at once comes to a standstill.

For more on this argument, see especially Authors/Duns Scotus/Ordinatio/Ordinatio_I/D2/Q2B – The Logic Museum²⁶³.

1.4.3 Illuminationism

Scotus argued against the version of illuminationism²⁶⁴ that had been defended earlier in the century by Henry of Ghent²⁶⁵. In his *Ordinatio* (I.3.1.4) he argued against the sceptical consequences that Henry claimed would follow from abandoning divine illumination. Scotus argued that if our thinking were fallible in the way Henry had believed, such illumination could not, even in principle, ensure "certain and pure knowledge."^[42]

When one of those that come together is incompatible with certainty, then certainty cannot be achieved. For just as from one premise that is necessary and one that is contingent nothing follows but a contingent conclusion, so from something certain and something uncertain, coming together in some cognition, no cognition that is certain follows (*Ordinatio* I.3.1.4 n.221).

1.4.4 Immaculate Conception

Perhaps the most influential point of Duns Scotus's theology was his defense of the Immaculate Conception²⁶⁶ of Mary²⁶⁷ (i.e., that Mary herself was conceived without sin). At the time, there was a great deal of argument about the subject. The general opinion was that it was appropriately deferential to the Mother of God²⁶⁸, but it could not be seen how to resolve the problem that only with Christ²⁶⁹'s death would the stain of original sin²⁷⁰ be removed. The great philosophers and theologians of the West were divided on the subject (indeed, even Thomas Aquinas²⁷¹ sided with those who denied the doctrine). The feast day²⁷² had existed in the East (though in the East, the feast is just of the Conception of Mary) since the seventh century and had been introduced in several dioceses in the West as well, even though the philosophical basis was lacking. Citing Anselm of Canterbury²⁷³'s principle, "*potuit, decuit, ergo fecit*" (He [i.e., God] could do it, it was appropriate, therefore He did it), Duns Scotus devised the following argument: Mary was in need of redemption like all other human beings, but through the merits of Jesus' crucifixion²⁷⁴, given in advance, she was conceived without the stain of original sin. God could have brought it about (1) that she was never in original sin, (2) she was in sin only for an instant, (3) she was in sin for a period of time, being purged at the last instant. Whichever of these options was most excellent should probably be attributed to Mary.^[43] This apparently careful statement pro-

263 http://www.logicmuseum.com/wiki/Authors/Duns_Scotus/Ordinatio/Ordinatio_I/D2/Q2B

264 https://en.wikipedia.org/wiki/Divine_illumination

265 https://en.wikipedia.org/wiki/Henry_of_Ghent

266 https://en.wikipedia.org/wiki/Immaculate_Conception

267 https://en.wikipedia.org/wiki/Blessed_Virgin_Mary

268 https://en.wikipedia.org/wiki/Mother_of_God

269 <https://en.wikipedia.org/wiki/Jesus>

270 https://en.wikipedia.org/wiki/Original_sin

271 https://en.wikipedia.org/wiki/Thomas_Aquinas

272 https://en.wikipedia.org/wiki/Feast_of_the_Immaculate_Conception

273 https://en.wikipedia.org/wiki/Anselm_of_Canterbury

274 <https://en.wikipedia.org/wiki/Crucifixion>

voked a storm of opposition at Paris, and suggested the line 'fired France for Mary without spot' in the famous poem "Duns Scotus's Oxford," by Gerard Manley Hopkins²⁷⁵.

Scotus's argument appears in Pope Pius IX²⁷⁶'s 1854 declaration of the dogma²⁷⁷ of the Immaculate Conception, "at the first moment of Her conception, Mary was preserved free from the stain of original sin, in view of the merits of Jesus Christ."^[44] Scotus's position was hailed as "a correct expression of the faith of the Apostles."^[44]

Another of Scotus's positions also gained official approval of the Catholic Church: his doctrine on the universal primacy of Christ became the underlying rationale for the feast of Christ the King instituted in 1925.^[44]

During his pontificate, Pope John XXIII²⁷⁸ recommended the reading of Duns Scotus's theology to modern theology students.

1.5 Veneration

Duns Scotus was long honored as a Blessed²⁷⁹ by the Order of Friars Minor, as well as in the Archdioceses²⁸⁰ of Edinburgh²⁸¹ and Cologne²⁸². In the 19th-century, the process was started seeking his recognition as such by the Holy See²⁸³, on the basis of a *cultus²⁸⁴ immemorabilis*, i.e., one of ancient standing.^[17] He was declared Venerable²⁸⁵ by Pope John Paul II²⁸⁶ in 1991, who officially recognized his liturgical cult, effectively beatifying²⁸⁷ him on 20 March 1993.^[45]

1.6 Later reputation and influence

1.6.1 Later medieval period

Owing to Scotus's early and unexpected death, he left behind a large body of work in an unfinished or unedited condition. His students and disciples extensively edited his papers, often confusing them with works by other writers, in many cases leading to misattribution and confused transmission. Most 13th-century Franciscans followed Bonaventura²⁸⁸, but the influence of Scotus (as well as that of his arch-rival William of Ockham²⁸⁹) spread in the fourteenth century. Franciscan theologians in the late Middle Ages were thus divided

275 https://en.wikipedia.org/wiki/Gerard_Manley_Hopkins

276 https://en.wikipedia.org/wiki/Pope_Pius_IX

277 <https://en.wikipedia.org/wiki/Dogma>

278 https://en.wikipedia.org/wiki/Pope_John_XXIII

279 <https://en.wikipedia.org/wiki/Beatification>

280 <https://en.wikipedia.org/wiki/Archdiocese>

281 https://en.wikipedia.org/wiki/Roman_Catholic_Archdiocese_of_St_Andrews_and_Edinburgh

282 https://en.wikipedia.org/wiki/Archdiocese_of_Cologne

283 https://en.wikipedia.org/wiki/Holy_See

284 [https://en.wikipedia.org/wiki/Cult_\(religious_practice\)](https://en.wikipedia.org/wiki/Cult_(religious_practice))

285 <https://en.wikipedia.org/wiki/Venerable>

286 https://en.wikipedia.org/wiki/Pope_John_Paul_II

287 <https://en.wikipedia.org/wiki/Beatification>

288 <https://en.wikipedia.org/wiki/Bonaventure>

289 https://en.wikipedia.org/wiki/William_of_Ockham

between so-called Scotists and Ockhamists. Fourteenth century followers included Francis of Mayrone²⁹⁰ (died 1325), Antonius Andreas²⁹¹ (died 1320), William of Alnwick²⁹² (died 1333), and John of Bassolis (died 1347), supposedly Scotus's favourite student.^[46]

1.6.2 Sixteenth to nineteenth centuries

His reputation suffered during the English reformation²⁹³, probably due to its association with the Franciscans. In a letter to Thomas Cromwell²⁹⁴ about his visit to Oxford in 1535, Richard Layton²⁹⁵ described how he saw the court of New College full of pages from Scotus's work, "the wind blowing them into every corner."^[47] John Leland²⁹⁶ described the Oxford Greyfriar's library in 1538 (just prior to its dissolution) as an accumulation of "cobwebs, moths and bookworms."^[48]

When in the sixteenth century the Scotists argued against Renaissance humanism²⁹⁷, the term *duns* or *dunce*²⁹⁸ became, in the mouths of humanists and reformers, a term of abuse and a synonym²⁹⁹ for one incapable of scholarship³⁰⁰.^[49]

Despite this, Scotism grew in Catholic Europe. Scotus's works were collected into many editions, particularly in the late fifteenth century with the advent of printing³⁰¹. His school was probably at the height of its popularity at the beginning of the seventeenth century; during the sixteenth and the seventeenth centuries there were special Scotist chairs, e.g. at Paris, Rome, Coimbra, Salamanca, Alcalá, Padua, and Pavia. New ideas were included pseudographically³⁰² in later editions of his work, such as the principle of explosion³⁰³, now attributed to **Pseudo-Scotus**. Scotism flourished well into the seventeenth century, and its influence can be seen in such writers as Descartes³⁰⁴ and Bramhall. Interest dwindled in the eighteenth century, and the revival of scholastic philosophy, known as neo-Scholasticism³⁰⁵, was essentially a revival of Thomistic thinking.

Gerard Manley Hopkins³⁰⁶ was able to reconcile his religious calling and his vocation as a poet thanks to his reading of Duns Scotus. His poem *As Kingfishers Catch Fire* expresses Duns Scotus's ideas on "haecceity".

290 https://en.wikipedia.org/wiki/Francis_of_Mayrone

291 https://en.wikipedia.org/wiki/Antonius_Andreas

292 https://en.wikipedia.org/wiki/William_of_Alnwick

293 https://en.wikipedia.org/wiki/English_reformation

294 https://en.wikipedia.org/wiki/Thomas_Cromwell

295 https://en.wikipedia.org/wiki/Richard_Layton

296 [https://en.wikipedia.org/wiki/John_Leland_\(antiquary\)](https://en.wikipedia.org/wiki/John_Leland_(antiquary))

297 https://en.wikipedia.org/wiki/Renaissance_humanism

298 <https://en.wikipedia.org/wiki/Dunce>

299 <https://en.wikipedia.org/wiki/Synonym>

300 https://en.wikipedia.org/wiki/Scholarly_method

301 <https://en.wikipedia.org/wiki/Printing>

302 <https://en.wikipedia.org/wiki/Pseudographical>

303 https://en.wikipedia.org/wiki/Principle_of_explosion

304 <https://en.wikipedia.org/wiki/Descartes>

305 <https://en.wikipedia.org/wiki/Neo-Scholasticism>

306 https://en.wikipedia.org/wiki/Gerard_Manley_Hopkins

1.6.3 Twentieth century

The twentieth century saw a resurgence of interest in Scotus, with a range of assessments of his thought.

For one thing, Scotus has received interest from secular philosophers such as Peter King, Gyula Klima, Paul Vincent Spade, and others.

For some today, Scotus is one of the most important Franciscan³⁰⁷ theologians and the founder of Scotism³⁰⁸, a special form of Scholasticism³⁰⁹. He came out of the Old Franciscan School, to which Haymo of Faversham³¹⁰ (died 1244), Alexander of Hales³¹¹ (died 1245), John of Rupella³¹² (died 1245), William of Melitona³¹³ (died 1260), St. Bonaventure³¹⁴ (died 1274), Cardinal³¹⁵ Matthew of Aquasparta³¹⁶ (died 1289), John Peckham³¹⁷, Archbishop of Canterbury (died 1292), Richard of Middletown³¹⁸ (died c. 1300), etc., belonged. He was known as "Doctor Subtilis" because of the subtle distinctions and nuances of his thinking. Later philosophers in the sixteenth century were less complimentary about his work and accused him of sophistry³¹⁹. This led to the word "dunce"³²⁰, which developed from the name "Dunse" given to his followers in the 1500s, becoming used for "somebody who is incapable of scholarship"³²¹.

An important question since the 1960s has revolved over whether Scotus's thought heralded a change in thinking on the nature of 'being,' a change which marked a shift from Aquinas and other previous thinkers; this question has been particularly significant in recent years because it has come to be seen as a debate over the origins of 'modernity.' This line of argument first emerged in the 1960s among popular French philosophers who, in passing, singled out Duns Scotus as the figure whose theory of univocal being changed an earlier approach which Aquinas had shared with his predecessors.^[50] Then, in 1990, the historian of philosophy Jean-Francois Courtine argued that, between the time of Aquinas in the mid-thirteenth century and Francisco Suárez³²² at the turn of the seventeenth, a fundamentally new approach to being was developed, with Scotus taking a major part in its development.^[51] During the 1990s, various scholars extended this argument to locate Scotus as the first thinker who succumbed to what Heidegger³²³ termed 'onto-theology'.

307 <https://en.wikipedia.org/wiki/Franciscan>

308 <https://en.wikipedia.org/wiki/Scotism>

309 <https://en.wikipedia.org/wiki/Scholasticism>

310 https://en.wikipedia.org/wiki/Haymo_of_Faversham

311 https://en.wikipedia.org/wiki/Alexander_of_Hales

312 https://en.wikipedia.org/wiki/John_of_Rupella

313 https://en.wikipedia.org/wiki/William_of_Melitona

314 <https://en.wikipedia.org/wiki/Bonaventure>

315 [https://en.wikipedia.org/wiki/Cardinal_\(Catholicism\)](https://en.wikipedia.org/wiki/Cardinal_(Catholicism))

316 https://en.wikipedia.org/wiki/Matthew_of_Aquasparta

317 https://en.wikipedia.org/wiki/John_Peckham

318 https://en.wikipedia.org/wiki/Richard_of_Middletown

319 <https://en.wikipedia.org/wiki/Sophism>

320 <https://en.wikipedia.org/wiki/Dunce>

321 https://en.wikipedia.org/wiki/Scholarly_method

322 https://en.wikipedia.org/wiki/Francisco_Su%C3%A1rez

323 https://en.wikipedia.org/wiki/Martin_Heidegger

In recent years, this criticism of Scotus has become disseminated in particular through the writings of the 'Radical Orthodox' group of theologians, drawing on John Milbank³²⁴ and Catherine Pickstock³²⁵. The Radical Orthodox model has been questioned by Daniel Horan^{326[52]} and Thomas Williams,^[53] both of whom claim that Scotus's doctrine of the univocity of being is a semantic, rather than an ontological theory. Both thinkers cite Ord. 1, d. 3, pars 1, q. 3, n. 163, in which Scotus claims that "This [univocally] is how all the authoritative passages one might find on this topic in the Metaphysics or Physics should be interpreted: in terms of the ontological diversity of those things to which the concept is attributed, which is compatible with there being one concept that can be abstracted from them". Such a quotation seems to refer to epistemology, with abstracted concepts, rather than with ontology, which Scotus admits can be diverse.

1.7 In popular media

In 2012 Fernando Muraca directed for TVCO and the Franciscan Friars of the Immaculate³²⁷ the biopic *Blessed Duns Scotus: Defender of the Immaculate Conception* in Italian.^{[54][55]} It centers on the debate at the Paris University with glimpses of his infancy and Franciscan vocation. Adriano Braidotti played the adult Scotus and Emanuele Maria Gamboni played Scotus as a child.^[56]

1.8 Bibliography

Works in rough chronological order

- Before 1295:
 - *Parva logicalia*
 - *Quaestiones super Porphyrii Isaginem*
 - *Quaestiones in librum Praedicamentorum*
 - *Quaestiones in I et II librum Perihermeneias*
 - *Octo quaestiones in duos libros Perihermeneias*
 - *Quaestiones in libros Elenchorum*
 - *Quaestiones super libros De anima* (1295–1298?)
 - *Quaestiones super libros Metaphysicorum Aristotelis* (1298–1300?; revised later)
 - *Notabilia Scotti super Metaphysicam* (a set of notes concerning books II–X and XII of Aristotle's *Metaphysics*, discovered only in 1996^[57])
 - *Lectura* (Early Oxford Lectures on the four books of the *Sentences* of Peter Lombard)
 - Books 1 and 2 (1300–1301)
 - Book 3 (probably written in Paris, 1303–04)
 - Book 4 (not extant)
 - *Ordinatio* or *Opus Oxoniense* (Oxford Lectures: a revision of the lectures given at Oxford, books 1 and 2 summer 1300–1302, books 3 and 4, 1303–1304)
 - *Collationes oxonienses* (1303–04 or 1305–08)

324 https://en.wikipedia.org/wiki/John_Milbank

325 https://en.wikipedia.org/wiki/Catherine_Pickstock

326 https://en.wikipedia.org/wiki/Daniel_Horan

327 https://en.wikipedia.org/wiki/Franciscan_Friars_of_the_Immaculate

- *Collationes parisienses* (1302–07)
- *Reportatio parisiensis* (Paris Lectures, 1302–07)
- *Quaestiones Quodlibetales* (edited by Felix Alluntis in *Obras del Doctor Sutil, Juan Duns Escoto*, Madrid, Biblioteca de Autores Cristianos, 1963)
- *Tractatus de Primo Principio* (Treatise on the First Principle) English Translation³²⁸
- *Theoremata* (uncertain date)

Dubious works

- *Theoremata*

Spurious works

- *De Rerum Principio* (Of the Beginning of Things). An inauthentic work once attributed to Scotus.

Latin editions

- OPERA OMNIA. (*Wadding Edition*, so-called after its editor Luke Wadding³²⁹) Lyon, 1639; reprinted Hildesheim: Georg Olms Verlagsbuchhandlung, 1968. [Despite the title, this edition does not represent all the works of Scotus. Certain works printed in it are no longer attributed to Scotus; certain works by Scotus are omitted (including his early *Lectura* on the Sentences of Peter Lombard); what the book presents as Book I of Scotus's late *Reportatio* is in fact an entirely separate work whose authenticity and authority are vigorously disputed.]
- OPERA OMNIA. (*Vatican Edition* = VE) Civitas Vaticana: Typis Polyglottis Vaticanis, 1950–.
 - ORDINATIO (complete critical edition)
 - I, De Ordinatione Ioannis Duns Scoti disquisitio historico critica. Prologus totius operis, 1950.
 - II, Ordinatio. Liber Primus. Distinctiones 1–2, 1950.
 - III, Ordinatio. Liber Primus. Distinctio 3, 1954.
 - IV, Ordinatio. Liber Primus. Distinctiones 4–10, 1956.
 - V, Ordinatio. Liber Primus. Distinctiones 11–25, 1959.
 - VI, Ordinatio. Liber Primus. Distinctiones 26–48, 1963.
 - VII, Ordinatio. Liber Secundus. Distinctiones 1–3, 1973.
 - VIII, Ordinatio. Liber Secundus. Distinctiones 4–44, 2001.
 - IX, Ordinatio. Liber Tertius. Distinctiones 1–17, 2006.
 - X, Ordinatio. Liber Tertius. Distinctiones 26–40, 2007.
 - XI, Ordinatio. Liber Quartus. Distinctiones 1–7, 2008.
 - XII, Ordinatio. Liber Quartus. Distinctiones 8–13, 2010.
 - XIII, Ordinatio. Liber Quartus, Distinctiones 14–42, 2011.
 - XIV, Ordinatio. Liber Quartus, Distinctiones 43–49, 2013.
 - LECTURA
 - XVI, Lectura in Librum Primum Sententiarum. Prologus et Distinctiones 1–7, 1960.
 - XVII, Lectura in Librum Primum Sententiarum. Distinctiones 8–45, 1966.
 - XVIII, Lectura in Librum Secundum Sententiarum. Distinctiones 1–6, 1982.
 - XIX, Lectura in Librum Secundum Sententiarum. Distinctiones 7–44, 1993.

328 <http://www.ewtn.com/library/THEOLOGY/GODASFIR.HTM>

329 https://en.wikipedia.org/wiki/Luke_Wadding

- XX, *Lectura in Librum Tertium Sententiarum. Distinctiones 1–17*, 2003.
- XXI, *Lectura in Librum Tertium Sententiarum. Distinctiones 18–40*, 2004.
- OPERA PHILOSOPHICA (= OP). St. Bonaventure, NY: The Franciscan Institute:, 1997–2006:
 - Vol. I: *Quaestiones super Porphyrius Isagoge et Aristoteles Categoriae*, Franciscan Institute Publications, 1999. ISBN³³⁰ 978-1-57659-121-5³³¹
 - Vol. II: *Quaestiones super Peri hermeneias et Sophistici Elenchis* (along with) *Theore-mata*, Franciscan Institute Publications, 2004, ISBN³³² 978-1-57659-122-2³³³.
 - Vol. III-IV: *Quaestiones super libros Metaphysicorum Aristotelis* Franciscan Institute Publications, 2004. ISBN³³⁴ 978-1-57659-124-6³³⁵.
 - Vol. V: *Quaestiones super Secundum et Tertium de Anima*. Franciscan Institute Publications, 2006. ISBN³³⁶ 978-0-8132-1422-1³³⁷.
- The Examined Report of the Paris Lecture, *Reportatio I-A*, Volume 1, edited and translated by Allan B. Wolter, OFM and Oleg Bychkov. Franciscan Institute Publications, 2004 ISBN³³⁸ 978-1-57659-193-2³³⁹
- The Examined Report of the Paris Lecture, *Reportatio I-A*, Volume 2, edited and translated by Allan B. Wolter, OFM and Oleg Bychkov. Franciscan Institute Publications, 2008. ISBN³⁴⁰ 978-1-57659-150-5³⁴¹

English translations

- John Duns Scotus, *A Treatise on God as First Principle*. Chicago: Franciscan Herald Press 1982. A Latin text and English translation of the De Primo Principio. Second edition, revised, with a commentary by Allan Wolter, (First edition 1966).
- John Duns Scotus, *God and Creatures. The Quodlibetal Questions*, Translated by Wolter, Allan B., OFM, and Felix Alluntis, Washington, D.C.: The Catholic University of America Press, 1975.
- *Duns Scotus on the Will and Morality*, Translated by Wolter, Allan B., OFM, Washington, DC: The Catholic University of America Press, 1986.
- *Duns Scotus: Philosophical Writings*, Translated by Wolter, Allan B., OFM, Indianapolis: Hackett Publishing Company, 1987.
- *Duns Scotus' Parisian Proof for the Existence of God*, edited By Allan B. Wolter and Marilyn McCord Adams, Franciscan Studies 42, 1982, pp. 248–321. (Latin text and English translation).
- John Duns Scotus, *Contingency and Freedom. Lectura I 39*, translation, commentary and introduction by A. Vos Jaczn, H. Veldhuis, A.H. Looman-Graaskamp, E. Dekker and N.W. den Bok. The New Synthese Historical Library 4. Dordrecht/Boston/London: Kluwer, 1994.

³³⁰ [https://en.wikipedia.org/wiki/ISBN_\(identifier\)](https://en.wikipedia.org/wiki/ISBN_(identifier))

³³¹ <https://en.wikipedia.org/wiki/Special:BookSources/978-1-57659-121-5>

³³² [https://en.wikipedia.org/wiki/ISBN_\(identifier\)](https://en.wikipedia.org/wiki/ISBN_(identifier))

³³³ <https://en.wikipedia.org/wiki/Special:BookSources/978-1-57659-122-2>

³³⁴ [https://en.wikipedia.org/wiki/ISBN_\(identifier\)](https://en.wikipedia.org/wiki/ISBN_(identifier))

³³⁵ <https://en.wikipedia.org/wiki/Special:BookSources/978-1-57659-124-6>

³³⁶ [https://en.wikipedia.org/wiki/ISBN_\(identifier\)](https://en.wikipedia.org/wiki/ISBN_(identifier))

³³⁷ <https://en.wikipedia.org/wiki/Special:BookSources/978-0-8132-1422-1>

³³⁸ [https://en.wikipedia.org/wiki/ISBN_\(identifier\)](https://en.wikipedia.org/wiki/ISBN_(identifier))

³³⁹ <https://en.wikipedia.org/wiki/Special:BookSources/978-1-57659-193-2>

³⁴⁰ [https://en.wikipedia.org/wiki/ISBN_\(identifier\)](https://en.wikipedia.org/wiki/ISBN_(identifier))

³⁴¹ <https://en.wikipedia.org/wiki/Special:BookSources/978-1-57659-150-5>

- *Questions on the Metaphysics of Aristotle by John Duns Scotus*, Translated by Etzkorn, Girard J., and Allan B. Wolter, OFM, St. Bonaventure, NY: The Franciscan Institute, 1997–1998.
- *John Duns Scotus. Four Questions on Mary*, Introduction with Latin text and English translation and notes by Allan B. Wolter, OFM, Franciscan Institute Publications, 2000.
- *John Duns Scotus. A Treatise on Potency and Act. Questions on the Metaphysics of Aristotle Book IX*, Introduction with Latin text and English translation and notes by Allan B. Wolter, OFM, Franciscan Institute Publications, 2000.
- *John Duns Scotus. Political and Economic Philosophy*, Introduction with Latin text and English translation and notes by Allan B. Wolter, OFM, Franciscan Institute Publications, 2001.
- *Duns Scotus on Divine Love: Texts and Commentary on Goodness and Freedom, God and Humans*, translated by A. Vos, H. Veldhuis, E. Dekker, N.W. den Bok and A.J. Beck (ed.). Aldershot: Ashgate 2003.
- John Duns Scotus. *Early Oxford Lecture on Individuation*, Introduction with Latin text and English translation and notes by Allan B. Wolter, OFM, Franciscan Institute Publications, 2005.
- John Duns Scotus. *Questions on Aristotle's Categories*, Translated by Lloyd A. Newton, Washington, DC: Catholic University of America Press, 2014.
- *Duns Scotus on Time and Existence: The Questions on Aristotle's "De interpretatione"*, Translated with Introduction and Commentary by Edward Buckner and Jack Zupko, Washington, DC: Catholic University of America Press, 2014.

1.9 See also

- Oxford Franciscan school³⁴²
- *Virgin and Child with Saint Anne*³⁴³ – early depictions of the Immaculate Conception in three generations
- William of Ware³⁴⁴

1.10 Notes

1. Williams, Thomas (ed.). *The Cambridge Companion to Duns Scotus*. Cambridge University Press, 2002, p. 2.
2. He has long been claimed as a Merton³⁴⁵ alumnus, but there is no contemporary evidence to support this claim and as a Franciscan, he would have been ineligible for fellowships at Merton (see Martin, G. H. & Highfield, J. R. L. (1997). *A History of Merton College*. Oxford: Oxford University Press, p. 53).

342 https://en.wikipedia.org/wiki/Oxford_Franciscan_school

343 https://en.wikipedia.org/wiki/Virgin_and_Child_with_Saint_Anne

344 https://en.wikipedia.org/wiki/William_of_Ware

345 https://en.wikipedia.org/wiki/Merton_College,_Oxford

3. CROSS, RICHARD (2014). *Duns Scotus's Theory of Cognition*³⁴⁶. OXFORD UNIVERSITY PRESS. P. 18. ISBN³⁴⁷ 9780199684885³⁴⁸. *Scotus is a good Aristotelian, in the sense that he believes that cognition always has an empirical starting point*
4. Walker, L. (1912). Voluntarism³⁴⁹. In The Catholic Encyclopedia³⁵⁰. New York: Robert Appleton Company. Retrieved September 27, 2019 from New Advent³⁵¹.
5. *The Sheed & Ward Anthology of Catholic Philosophy*³⁵². ROWMAN & LITTLEFIELD. 2005. ISBN³⁵³ 9780742531987³⁵⁴.
6. "ANSELM OF CANTERBURY (1033–1109)"³⁵⁵, *Internet Encyclopedia of Philosophy*³⁵⁶, 2006, RETRIEVED 10 NOVEMBER 2017
7. Anthony Kenny³⁵⁷, *Wyclif in His Times*, Oxford UP, 1986, p. 35 n. 13.
8. Harjeet Singh Gill, *Signification in language and culture*, Indian Institute of Advanced Study, 2002, p. 109.
9. WILLIAMS, THOMAS (2019), "JOHN DUNS SCOTUS"³⁵⁸, *The Stanford Encyclopedia of Philosophy*
10. SPADE, PAUL VINCENT (2018), "MEDIEVAL PHILOSOPHY"³⁵⁹, *The Stanford Encyclopedia of Philosophy*, Histories of medieval philosophy often treat Thomas Aquinas (1224/25–74), John Duns Scotus (c. 1265–1308), and William of Ockham (c. 1287–1347) as the "big three" figures in the later medieval period; a few add Bonaventure (1221–74) as a fourth.
11. "PEOPLE OF NOTE: JOHN DUNS SCOTUS"³⁶⁰. *Duns, Scotland*. Archived from the original³⁶¹ on 27 September 2007. Retrieved 18 January 2007.
12. Williams 2002, p. 2³⁶²
13. BRAMPTON, C. K. (1964). "DUNS SCOTUS AT OXFORD, 1288–1301". *Franciscan Studies*. 24 (Annual II): 5–20.
14. Although Vos (2006, p. 23) has objected that 'Duns' was actually his family name, as someone from Duns would have been known as 'de Duns'.

346 <https://books.google.com/books?id=rUVeBAAQBAJ&q=Scotus+is+a+good+Aristotelian,+in+the+sense+that+he+believes+that+cognition+always+has+an+empirical+starting+point&pg=PA18>

347 [https://en.wikipedia.org/wiki/ISBN_\(identifier\)](https://en.wikipedia.org/wiki/ISBN_(identifier))

348 <https://en.wikipedia.org/wiki/Special:BookSources/9780199684885>

349 <http://www.newadvent.org/cathen/115505a.htm>

350 https://en.wikipedia.org/wiki/Catholic_Encyclopedia

351 https://en.wikipedia.org/wiki/New_Advent

352 https://books.google.com/books?id=HQ7K_-W7qhIC&q=Duns+Scotus+Avicenna&pg=PA130

353 [https://en.wikipedia.org/wiki/ISBN_\(identifier\)](https://en.wikipedia.org/wiki/ISBN_(identifier))

354 <https://en.wikipedia.org/wiki/Special:BookSources/9780742531987>

355 <http://www.iep.utm.edu/anselm/>

356 https://en.wikipedia.org/wiki/Internet_Encyclopedia_of_Philosophy

357 https://en.wikipedia.org/wiki/Anthony_Kenny

358 <https://plato.stanford.edu/archives/win2019/entries/duns-scotus/>

359 <https://plato.stanford.edu/archives/sum2018/entries/medieval-philosophy/>

360 <https://web.archive.org/web/20070927015131/http://www.duns.bordernet.co.uk/history/dunsscotus.html>

361 <http://www.duns.bordernet.co.uk/history/dunsscotus.html>

362 https://books.google.com/books?id=VRV9Tr_A-98C&lpg=PP1&pg=PA2#v=onepage&q&f=false

15. Vos 2006, p. 27. See also
ROEST, BERT (2000). *A history of Franciscan education (c. 1210–1517)*³⁶³. BRILL.
PP. 21³⁶⁴–24. ISBN³⁶⁵ 978-90-04-11739-6³⁶⁶.
16. Vos 2006, p. 27
17. "JOHN DUNS SCOTUS"³⁶⁷. *Catholic Encyclopedia*³⁶⁸.
18. Williams, Thomas (ed.). *The Cambridge Companion to Duns Scotus*. Cambridge University Press, 2002, p. 3.
19. *Narratur de Doctori Subtili qui in Prato clericorum, visa Generalis Ministri obedientia, dum actu Regens esse in scholis Parisiensibus, aut pauca aut nulla de rebus habita dispositione, Parisis exivit ut Coloniam iret, secundum ministri sententiam*. William Vorilong, *Opus super IV libros Sententiarum* II, d. 44, q. 1 f. 161va.
20. BUTLER, ALBAN³⁶⁹ (1866). "ST. BONAVENTURE, CARDINAL, BISHOP, AND DOCTOR OF THE CHURCH". *The Lives of the Fathers, Martyrs, and Other Principal Saints*³⁷⁰. VOL. VII. DUBLIN: JAMES DUFFY. NOTE 15. RETRIEVED 29 MAY 2014.
21. BACON, FRANCIS (1638). *Historia Vitae et Mortis*.
22. See the Bibliography under *The Examined Report of the Paris Lecture, Reportatio I-A*
23. PINI, GIORGIO (2005). "UNIVOCITY IN SCOTUS'S QUAESTIONES SUPER METAPHYSICAM: THE SOLUTION TO A RIDDLE"³⁷¹ (PDF). *Medioevo*. **30**: 69–110.
24. See e.g. Wolter 1995, p. 76 and *passim*
25. See the introduction to the critical edition: *Duns Scoti Quaestiones in librum Porphyrii Isagoge et Quaestiones super Praedicamenta Aristotelis* (*Opera philosophica*, I), xxix–xxxiv, xli–xlii.
26. PINI, GIORGIO (2005). "UNIVOCITY IN SCOTUS'S QUAESTIONES SUPER METAPHYSICAM: THE SOLUTION TO A RIDDLE"³⁷² (PDF). *Medioevo*. **30**: 69–110., although this is speculative
27. Thomas Williams (2009). "John Duns Scotus"³⁷³, *Stanford Encyclopedia of Philosophy* (online).
28. Ashworth 1987
29. *Die Kategorien- und Bedeutungslehre des Duns Scotus* (*Duns Scotus's Doctrine of Categories and Meaning*, 1916).
30. "Thomas of Erfurt"³⁷⁴ entry by Jack Zupko in the *Stanford Encyclopedia of Philosophy*³⁷⁵
31. "JOHN DUNS SCOTUS PHILOSOPHICAL WRITINGS"³⁷⁶. 6 SEPTEMBER 1308 – VIA INTERNET ARCHIVE.

363 <https://archive.org/details/historyfrancisca00roes>

364 <https://archive.org/details/historyfrancisca00roes/page/n31>

365 [https://en.wikipedia.org/wiki/ISBN_\(identifier\)](https://en.wikipedia.org/wiki/ISBN_(identifier))

366 <https://en.wikipedia.org/wiki/Special:BookSources/978-90-04-11739-6>

367 <http://www.newadvent.org/cathen/05194a.htm>

368 https://en.wikipedia.org/wiki/Catholic_Encyclopedia

369 https://en.wikipedia.org/wiki/Alban_Butler

370 <http://www.bartleby.com/210/7/141.html>

371 http://faculty.fordham.edu/pini/pini/Blank_files/Univocity%20in%20Scotus.pdf

372 http://faculty.fordham.edu/pini/pini/Blank_files/Univocity%20in%20Scotus.pdf

373 <http://plato.stanford.edu/entries/duns-scotus/>

374 <http://plato.stanford.edu/entries/erfurt/>

375 https://en.wikipedia.org/wiki/Stanford_Encyclopedia_of_Philosophy

376 <https://archive.org/details/JohnDunsScotusPhilosophicalWritings>

32. *Opus Oxoniense* I iii 1–2, quoted in Grenz 2005, p. 55³⁷⁷
33. Honderich p. 209
34. "BLESSED JOHN DUNS SCOTUS"³⁷⁸. *Franciscan Media*. Retrieved 2 April 2020.
35. Woo, B. HOON (2016). "THE DIFFERENCE BETWEEN SCOTUS AND TURRETIN IN THEIR FORMULATION OF THE DOCTRINE OF FREEDOM"³⁷⁹. *Westminster Theological Journal*. 78: 258–62.
36. Lectura I, d. 2, q. 2, 40 Now efficiency can be considered either as a metaphysical or as a physical property. The metaphysical property is more extensive than the physical for "to give existence to another" is of broader scope than "to give existence by way of movement or change." And even if all existence were given in the latter fashion, the notion of the one is still not that of the other. It is not efficiency as a physical attribute, however, but efficiency as the metaphysician considers it that provides a more effective way of proving God's existence, for there are more attributes in metaphysics than in physics whereby the existence of God can be established. It can be shown, for example, from "composition and simplicity," from "act and potency," from "one and many," from those features which are properties of being. Wherefore, if you find one extreme of the disjunction imperfectly realized in a creature, you conclude that the alternate, the perfect extreme exists in God. Averroës, therefore, in attacking Avicenna at the end of Bk. I of the Physics, 14 is incorrect when he claims that to prove that God exists is the job of the physicist alone, because this can be established only by way of motion, and in no other way – as if metaphysics began with a conclusion which was not evident in itself, but needed to be proved in physics (For Averroës asserts this falsehood at the end of the first book of the Physics). In point of fact, however, [God's existence] can be shown more truly and in a greater variety of ways by means of those metaphysical attributes which characterize being. The proof lies in this that the first efficient cause imparts not merely this fluid existence [called motion] but existence in an unqualified sense, which is still more perfect and widespread.
37. Summa Contra Gentiles, I, 13³⁸⁰
38. "We shall first set forth the arguments by which Aristotle proceeds to prove that God exists." SCG I, 13.2³⁸¹
39. Duns Scotus – Ordinatio I/D2/Q2B³⁸² logicmuseum.com
40. See paragraphs 46–55 at Duns Scotus – Ordinatio I/D2/Q2B³⁸³ logicmuseum.com
41. Duns Scotus – Ordinatio I/D2/Q2B³⁸⁴ (See paragraph 56) logicmuseum.com
42. PASNAU, ROBERT (2011). "DIVINE ILLUMINATION"³⁸⁵. *The Stanford Encyclopedia of Philosophy*.
43. *Ordinatio* III, d.3, q.1
44. "THE LIFE OF BLESSED JOHN DUNS SCOTUS"³⁸⁶. EWTN.

377 <https://books.google.com/books?id=VjHTcrWmgQC&lpg=PP1&pg=PA55#v=onepage&q&f=false>

378 <https://www.franciscanmedia.org/blessed-john-duns-scotus/>

379 <https://www.academia.edu/30598029>

380 <http://dhspriority.org/thomas/ContraGentiles1.htm#13>

381 <http://dhspriority.org/thomas/ContraGentiles1.htm#13>

382 http://www.logicmuseum.com/wiki/Authors/Duns_Scotus/Ordinatio/Ordinatio_I/D2/Q2B

383 http://www.logicmuseum.com/wiki/Authors/Duns_Scotus/Ordinatio/Ordinatio_I/D2/Q2B

384 http://www.logicmuseum.com/wiki/Authors/Duns_Scotus/Ordinatio/Ordinatio_I/D2/Q2B

385 <http://plato.stanford.edu/entries/illumination/>

386 <http://www.ewtn.com/library/mary/scotus.htm>

45. "CEREMONIA DE RECONOCIMIENTO DEL CULTO LITÚRGICO A DUNS ESCOTO Y BEATIFICACIÓN DE DINA BÉLANGER"³⁸⁷. *Vatican News Service*. 20 March 1993.(in Spanish)
46. COURTENAY, WILLIAM (JANUARY 2012). "EARLY SCOTISTS AT PARIS: A RECONSIDERATION"³⁸⁸. *Franciscan Studies*. **69** (1): 175–229. doi³⁸⁹:10.1353/frc.2012.0009³⁹⁰. S2CID³⁹¹ 162137015³⁹².
47. R. W. Dixon, *History of the Church of England from the Abolition of the Roman Jurisdiction*, 1:303
48. Catto, Jeremy, "Franciscan Learning in England, 1450–1540", in *The Religious Orders in Pre-Reformation England*, ed. Clarke 2002
49. CHISHOLM, HUGH, ED. (1911). "DUNCE"³⁹³. *Encyclopædia Britannica*³⁹⁴. VOL. 8 (11TH ED.). CAMBRIDGE UNIVERSITY PRESS. P. 671.
50. Jacques Derrida³⁹⁵, *L'Écriture et la différence*, (Paris, 1967), p216; G Deleuze, *Différence et répétition*, (Paris, 1968), pp. 52–8, cited in John Marenbon, "Aquinas, Radical Orthodoxy, and the importance of truth", in Wayne J Hankey and Douglas Hedley, eds, *Deconstructing radical orthodoxy: postmodern theology, rhetoric and truth*, (Ashgate, 2005), p. 56.
51. John Marenbon, "Aquinas, Radical Orthodoxy, and the importance of truth", in Wayne J Hankey and Douglas Hedley, eds, *Deconstructing radical orthodoxy: postmodern theology, rhetoric and truth*, (Ashgate, 2005), p. 56.
52. HORAN, DANIEL (2014). *Postmodernity and Univocity: A Critical Account of Radical Orthodoxy and John Duns Scotus*. Fortress Press. ISBN³⁹⁶ 9781451465723³⁹⁷.
53. WILLIAMS, THOMAS (2005). "THE DOCTRINE OF UNIVOCITY IS TRUE AND SALUTARY". *Modern Theology*. **21** (4): 575–585. doi³⁹⁸:10.1111/j.1468-0025.2005.00298.x³⁹⁹.
54. *Duns Scotus*⁴⁰⁰ at IMDb⁴⁰¹
55. "DUNS SCOTO"⁴⁰². TVCO. TVCO. Retrieved 10 April 2020.
56. "FiNEWS – FIs PRODUCING JOHN DUNS SCOTUS FILM"⁴⁰³. AirMaria.com. Franciscan Friars of the Immaculate⁴⁰⁴. 15 March 2010. Retrieved 10 April 2020.

387 https://www.vatican.va/holy_father/john_paul_ii/homilies/1993/documents/hf_jpii_hom_19930320_scoto-belanger_sp.html
388 http://muse.jhu.edu/login?auth=0&type=summary&url=/journals/franciscan_studies/v069/69.courtenay.html
389 [https://en.wikipedia.org/wiki/Doi_\(identifier\)](https://en.wikipedia.org/wiki/Doi_(identifier))
390 <https://doi.org/10.1353%2Ffrc.2012.0009>
391 [https://en.wikipedia.org/wiki/S2CID_\(identifier\)](https://en.wikipedia.org/wiki/S2CID_(identifier))
392 <https://api.semanticscholar.org/CorpusID:162137015>
393 https://en.wikisource.org/wiki/1911_Eencyclo%C3%A6d%C3%A9_Britannica/Dunce
394 https://en.wikipedia.org/wiki/Encyclop%C3%A6dia_Britannica_Eleventh_Edition
395 https://en.wikipedia.org/wiki/Jacques_Derrida
396 [https://en.wikipedia.org/wiki/ISBN_\(identifier\)](https://en.wikipedia.org/wiki/ISBN_(identifier))
397 <https://en.wikipedia.org/wiki/Special:BookSources/9781451465723>
398 [https://en.wikipedia.org/wiki/Doi_\(identifier\)](https://en.wikipedia.org/wiki/Doi_(identifier))
399 <https://doi.org/10.1111%2Fj.1468-0025.2005.00298.x>
400 <https://www.imdb.com/title/tt1872050/>
401 <https://en.wikipedia.org/wiki/IMDb>
402 <https://www.tvco.eu/catalogue/duns-scoto/>
403 <https://airmaria.com/2010/03/15/fine-news-fis-producing-john-duns-scotus-film/>
404 https://en.wikipedia.org/wiki/Franciscan_Friars_of_the_Immaculate

57. Giorgio Pini, "Duns Scotus' Literal Commentary on the "Metaphysics" and the "Notabilia Scoti super Metaphysicam" (Milan, Biblioteca Ambrosiana, C 62 Sup, ff. 51r–98r)", *Bulletin de philosophie médiévale*, 38 (1996), 141–142.

1.11 Further reading

- Bos, EGBERT P. (1998). *John Duns Scotus: Renewal of Philosophy. Acts of the Third Symposium organized by the Dutch Society for Medieval Philosophy Medium Aevum⁴⁰⁵*. AMSTERDAM: RODOPI. ISBN⁴⁰⁶ 978-90-420-0081-0⁴⁰⁷.
- Cross, Richard (ed.), *The Opera Theologica of John Duns Scotus. Proceedings of "The Quadruple Congress" on John Duns Scotus*, Part 2. Archa Verbi. Subsidia 4, Franciscan Institute Publications, 2012, ISBN⁴⁰⁸ 978-3-402-10214-5⁴⁰⁹.
- CROSS, RICHARD (2014). *Duns Scotus's Theory of Cognition*. Oxford: Oxford University Press. ISBN⁴¹⁰ 978-0-19-968488-5⁴¹¹.
- FRANK, WILLIAM A.; WOLTER, ALLAN B. (1995). *Duns Scotus, Metaphysician⁴¹²*. WEST LAFAYETTE: PURDUE UNIVERSITY PRESS. ISBN⁴¹³ 978-1-55753-072-1⁴¹⁴.
- GRACIA, JORGE J. E.⁴¹⁵; NOONE, TIMOTHY B. (2003). *A Companion to Philosophy in the Middle Ages*. Cambridge: Blackwell Pub. ISBN⁴¹⁶ 978-0-631-21672-8⁴¹⁷.
- GRENZ, STANLEY⁴¹⁸ (2005). *The Named God and the Question of Being: A Trinitarian Theo-ontology⁴¹⁹*. LOUISVILLE: WESTMINSTER JOHN KNOX PRESS. ISBN⁴²⁰ 978-0-664-22204-8⁴²¹.
- HONDERICH, TED⁴²² (1995). "DUNS SCOTUS". *The Oxford Companion to Philosophy⁴²³*. OXFORD: OXFORD UNIVERSITY PRESS. ISBN⁴²⁴ 978-0-19-866132-0⁴²⁵.
- Honnefelder Ludger, Möhle Hannes, Speer Andreas, Kobusch Theo, Bullido del Barrio Susana (eds.), *Johannes Duns Scotus 1308-2008: Die philosophischen Perspektiven seines Werkes/Investigations into his Philosophy. Proceedings of "The Quadruple Congress" on*

405 <https://books.google.com/books?id=YEXG95pvCssC>

406 [https://en.wikipedia.org/wiki/ISBN_\(identifier\)](https://en.wikipedia.org/wiki/ISBN_(identifier))

407 <https://en.wikipedia.org/wiki/Special:BookSources/978-90-420-0081-0>

408 <https://en.wikipedia.org/wiki/Special:BookSources/978-3-402-10214-5>

409 <https://en.wikipedia.org/wiki/Special:BookSources/978-0-19-968488-5>

410 <https://en.wikipedia.org/wiki/Special:BookSources/978-0-19-968488-5>

411 <https://en.wikipedia.org/wiki/Special:BookSources/978-0-19-968488-5>

412 https://books.google.com/books?id=G_oEAQAAIAAJ

413 <https://en.wikipedia.org/wiki/Special:BookSources/978-1-55753-072-1>

414 <https://en.wikipedia.org/wiki/Special:BookSources/978-1-55753-072-1>

415 https://en.wikipedia.org/wiki/Jorge_J._E._Gracia

416 <https://en.wikipedia.org/wiki/Special:BookSources/978-0-631-21672-8>

417 <https://en.wikipedia.org/wiki/Special:BookSources/978-0-631-21672-8>

418 https://en.wikipedia.org/wiki/Stanley_Grenz

419 <https://books.google.com/books?id=VjHTcrWmguQC>

420 <https://en.wikipedia.org/wiki/Special:BookSources/978-0-664-22204-8>

421 <https://en.wikipedia.org/wiki/Special:BookSources/978-0-664-22204-8>

422 https://en.wikipedia.org/wiki/Ted_Honderich

423 <https://archive.org/details/oxfordcompanion00hond>

424 <https://en.wikipedia.org/wiki/Special:BookSources/978-0-19-866132-0>

- John Duns Scotus*, Part 3. Archa Verbi. Subsidia 5, Franciscan Institute Publications, 2011, ISBN⁴²⁶ 978-3-402-10215-2⁴²⁷.
- Ingham, Mary Beth CSJ, and Bychkof, Olef (eds.), *John Duns Scotus, Philosopher. Proceedings of "The Quadruple Congress" on John Duns Scotus*, Part 1. Archa Verbi. Subsidia 3, Franciscan Institute Publications, 2010, ISBN⁴²⁸ 978-3-402-10213-8⁴²⁹.
 - Ingham, Mary Beth CSJ, *Scotus for Dunces: An Introduction to the Subtle Doctor*, Franciscan Institute Publications, 2003.
 - Ingham, Mary Beth CSJ, *The Harmony of Goodness: Mutuality and Moral Living According to John Duns Scotus*, Franciscan Institute Publications, 1997.
 - KRETMANN, NORMAN⁴³⁰; KENNY, ANTHONY⁴³¹; PINBORG, JAN⁴³²; STUMP, ELEONORE (1982). *The Cambridge History of Later Medieval Philosophy*⁴³³. CAMBRIDGE: CAMBRIDGE UNIVERSITY PRESS. ISBN⁴³⁴ 978-0-521-36933-6⁴³⁵.
 - Shannon, Thomas *The Ethical Theory of John Duns Scotus*, Franciscan Institute Publications, 1995.
 - VOS, ANTONIE (2006). *The Philosophy of John Duns Scotus*. Edinburgh: Edinburgh University Press. ISBN⁴³⁶ 978-0-7486-2462-1⁴³⁷.
 - WILLIAMS, THOMAS (2002). *The Cambridge Companion to Duns Scotus*⁴³⁸. CAMBRIDGE: CAMBRIDGE UNIVERSITY PRESS. ISBN⁴³⁹ 978-0-521-63563-9⁴⁴⁰.
 - Wolter, Allan B. OFM and O'Neil, Blane OFM, *John Duns Scotus: Mary's Architect*, Franciscan Institute Publications, 1993.
 - Wolter, Allan B. OFM, *The Philosophical Theology of John Duns Scotus*, Ithaca, Cornell University Press, 1990.
 - Wolter, Allan B. OFM, *Scotus and Ockham. Selected Essays*, Franciscan Institute Publications, 2003.
 - WOO, B. HOON (2016). "THE DIFFERENCE BETWEEN SCOTUS AND TURRETIN IN THEIR FORMULATION OF THE DOCTRINE OF FREEDOM"⁴⁴¹. *Westminster Theological Journal*. 78: 249–69.

1.12 External links

Wikimedia Commons has media related to John Duns Scotus⁴⁴².

426 [https://en.wikipedia.org/wiki/ISBN_\(identifier\)](https://en.wikipedia.org/wiki/ISBN_(identifier))

427 <https://en.wikipedia.org/wiki/Special:BookSources/978-3-402-10215-2>

428 [https://en.wikipedia.org/wiki/ISBN_\(identifier\)](https://en.wikipedia.org/wiki/ISBN_(identifier))

429 <https://en.wikipedia.org/wiki/Special:BookSources/978-3-402-10213-8>

430 https://en.wikipedia.org/wiki/Norman_Kretzmann

431 https://en.wikipedia.org/wiki/Anthony_Kenny

432 https://en.wikipedia.org/wiki/Jan_Pinborg

433 https://books.google.com/books?id=1821N_9GSusC

434 [https://en.wikipedia.org/wiki/ISBN_\(identifier\)](https://en.wikipedia.org/wiki/ISBN_(identifier))

435 <https://en.wikipedia.org/wiki/Special:BookSources/978-0-521-36933-6>

436 [https://en.wikipedia.org/wiki/ISBN_\(identifier\)](https://en.wikipedia.org/wiki/ISBN_(identifier))

437 <https://en.wikipedia.org/wiki/Special:BookSources/978-0-7486-2462-1>

438 https://books.google.com/books?id=VRV9Tr_A-98C

439 [https://en.wikipedia.org/wiki/ISBN_\(identifier\)](https://en.wikipedia.org/wiki/ISBN_(identifier))

440 <https://en.wikipedia.org/wiki/Special:BookSources/978-0-521-63563-9>

441 <https://www.academia.edu/30598029>

442 https://commons.wikimedia.org/wiki/Category:John_Duns_Scotus

-  Works related to Duns Scotus⁴⁴³ at Wikisource
-  Quotations related to Duns Scotus⁴⁴⁴ at Wikiquote
- John Duns Scotus (1266–1308)⁴⁴⁵ entry by Jeffrey Hause in the *Internet Encyclopedia of Philosophy*⁴⁴⁶
- Scotus: Knowledge of God⁴⁴⁷ entry by Alexander Hall in the *Internet Encyclopedia of Philosophy*
- WILLIAMS, THOMAS. "JOHN DUNS SCOTUS"⁴⁴⁸. IN ZALTA, EDWARD N.⁴⁴⁹ (ED.). *Stanford Encyclopedia of Philosophy*⁴⁵⁰.
- Site of the International Scotistic Commission (Rome, Italy)⁴⁵¹
- Bibliography on Duns Scotus from 1950⁴⁵² by Tobias Hoffmann
- Catholic Encyclopedia article on John Duns Scotus⁴⁵³
- Site about Duns Scotus of the Research Group John Duns Scotus (Utrecht, NL)⁴⁵⁴
- Thomas Williams's pages on Scotus⁴⁵⁵
- The Realist Ontology of John Duns Scotus⁴⁵⁶ with an annotated bibliography
- Article by Parthenius Minges on Scotists and Scotism at the Jacques Maritain Center⁴⁵⁷
- Local history site of Blessed John Duns Scotus's birthplace, Duns, Berwickshire, Scotland⁴⁵⁸
- Online Galleries, History of Science Collections, University of Oklahoma Libraries⁴⁵⁹ High resolution images of works by Duns Scotus in .jpg and .tiff format.

History of Catholic theology

443 https://en.wikisource.org/wiki/Special:Search/Duns_Scotus

444 https://en.wikiquote.org/wiki/Special:Search/Duns_Scotus

445 <http://www.iep.utm.edu/scotus/>

446 https://en.wikipedia.org/wiki/Internet_Encyclopedia_of_Philosophy

447 <http://www.iep.utm.edu/scotusksg/>

448 <https://plato.stanford.edu/entries/duns-scotus/>

449 https://en.wikipedia.org/wiki/Edward_N._Zalta

450 https://en.wikipedia.org/wiki/Stanford_Encyclopedia_of_Philosophy

451 <http://www.scoto.net/>

452 <https://sites.google.com/site/scotusbibliography/>

453 <http://www.newadvent.org/cathen/05194a.htm>

454 <http://www.dunsscotus.com>

455 <http://shell.cas.usf.edu/~thomasw/index.html>

456 <https://www.ontology.co/duns-scotus.htm>

457 <https://web.archive.org/web/20060922115356/http://www2.nd.edu/Departments//Maritain/etext/scotism.htm>

458 <https://web.archive.org/web/20070927015131/http://www.duns.bordernet.co.uk/history/dunsscotus.html>

459 <https://web.archive.org/web/20120324053652/http://hos.ou.edu/galleries//01Ancient/HeroOfAlexandria/1575//15thCentury/Vespucci//03Medieval/DunsScotus/>

History of Catholic theology

Catholic philosophy

Medieval philosophers

Aristotelianism

Metaphysics

Authority control

- This page was last edited on 17 March 2022, at 13:26 (UTC).

- Text is available under the Creative Commons Attribution-ShareAlike License 3.0⁴⁶⁰⁴⁶¹; additional terms may apply. By using this site, you agree to the Terms of Use⁴⁶² and Privacy Policy⁴⁶³. Wikipedia® is a registered trademark of the Wikimedia Foundation, Inc.⁴⁶⁴, a non-profit organization.

460 http://en.wikipedia.org/wiki/Wikipedia:Text_of_Creative_Commons_Attribution-ShareAlike_3.0_Unported_License
461 <http://creativecommons.org/licenses/by-sa/3.0/>
462 http://foundation.wikimedia.org/wiki/Terms_of_Use
463 http://foundation.wikimedia.org/wiki/Privacy_policy
464 <http://www.wikimediafoundation.org/>

2 Contributors

Edits	User
2	78.26 ¹
1	AK456 ²
5	ASCIIIn2Bme ³
1	Academic Challenger ⁴
1	Addbot ⁵
3	AdjustShift ⁶
1	Afernand74 ⁷
2	AlastairJHannaford ⁸
2	Alcaios ⁹
1	Alexbot ¹⁰
1	Amber388 ¹¹
1	Ambrosius007 ¹²
1	Analphabot ¹³
19	Angellstorage ¹⁴
1	Angusmclellan ¹⁵
7	AnomieBOT ¹⁶
1	Anthonyhcole ¹⁷
1	Argo_Navis ¹⁸
3	Arildnordby ¹⁹
2	Aristotle_Pagaltzis ²⁰

-
- 1 <https://en.wikipedia.org/wiki/User:78.26>
 - 2 <https://en.wikipedia.org/wiki/User:AK456>
 - 3 <https://en.wikipedia.org/wiki/User:ASCIIIn2Bme>
 - 4 https://en.wikipedia.org/wiki/User:Academic_Challenger
 - 5 <https://en.wikipedia.org/wiki/User:Addbot>
 - 6 <https://en.wikipedia.org/wiki/User:AdjustShift>
 - 7 <https://en.wikipedia.org/wiki/User:Afernand74>
 - 8 <https://en.wikipedia.org/wiki/User:AlastairJHannaford>
 - 9 <https://en.wikipedia.org/wiki/User:Alcaios>
 - 10 <https://en.wikipedia.org/wiki/User:Alexbot>
 - 11 <https://en.wikipedia.org/wiki/User:Amber388>
 - 12 <https://en.wikipedia.org/wiki/User:Ambrosius007>
 - 13 <https://en.wikipedia.org/wiki/User:Analphabot>
 - 14 <https://en.wikipedia.org/w/index.php?title=User:Angellstorage&action=edit&redlink=1>
 - 15 <https://en.wikipedia.org/wiki/User:Angusmclellan>
 - 16 <https://en.wikipedia.org/wiki/User:AnomieBOT>
 - 17 <https://en.wikipedia.org/wiki/User:Anthonyhcole>
 - 18 https://en.wikipedia.org/wiki/User:Argo_Navis
 - 19 <https://en.wikipedia.org/wiki/User:Arildnordby>
 - 20 https://en.wikipedia.org/w/index.php?title=User:Aristotle_Pagaltzis&action=edit&redlink=1

1 Arthena²¹
1 Athene cheval²²
3 Aubreybardo²³
1 Aza24²⁴
1 BD2412²⁵
1 Batmanand²⁶
1 Beeblebrox²⁷
1 Bender the Bot²⁸
1 Bender235²⁹
1 Beofluff³⁰
1 Biker Biker³¹
1 Bility³²
1 Bill Thayer³³
1 BizarreLoveTriangle³⁴
1 Blackguard SF³⁵
1 Blaisorblade³⁶
1 Blanchette³⁷
3 Bluebot³⁸
1 Bobo192³⁹
2 Br'er Rabbit⁴⁰
2 Brendandh⁴¹
1 Broadbot⁴²
3 Brutdaven⁴³
1 BryanG⁴⁴
1 Carjoyg⁴⁵

21 <https://en.wikipedia.org/wiki/User:Arthena>
22 https://en.wikipedia.org/wiki/User:Athene_cheval
23 <https://en.wikipedia.org/w/index.php?title=User:Aubreybardo&action=edit&redlink=1>
24 <https://en.wikipedia.org/wiki/User:Aza24>
25 <https://en.wikipedia.org/wiki/User:BD2412>
26 <https://en.wikipedia.org/wiki/User:Batmanand>
27 <https://en.wikipedia.org/wiki/User:Beeblebrox>
28 https://en.wikipedia.org/wiki/User:Bender_the_Bot
29 <https://en.wikipedia.org/wiki/User:Bender235>
30 <https://en.wikipedia.org/w/index.php?title=User:Beofluff&action=edit&redlink=1>
31 https://en.wikipedia.org/wiki/User:Biker_Biker
32 <https://en.wikipedia.org/wiki/User:Bility>
33 https://en.wikipedia.org/wiki/User:Bill_Thayer
34 <https://en.wikipedia.org/wiki/User:BizarreLoveTriangle>
35 https://en.wikipedia.org/wiki/User:Blackguard_SF
36 <https://en.wikipedia.org/wiki/User:Blaisorblade>
37 <https://en.wikipedia.org/wiki/User:Blanchette>
38 <https://en.wikipedia.org/wiki/User:Bluebot>
39 <https://en.wikipedia.org/wiki/User:Bobo192>
40 https://en.wikipedia.org/wiki/User:Br%2527er_Rabbit
41 <https://en.wikipedia.org/wiki/User:Brendandh>
42 <https://en.wikipedia.org/wiki/User:Broadbot>
43 <https://en.wikipedia.org/w/index.php?title=User:Brutdaven&action=edit&redlink=1>
44 <https://en.wikipedia.org/wiki/User:BryanG>
45 <https://en.wikipedia.org/w/index.php?title=User:Carjoyg&action=edit&redlink=1>

- 2 Caustoncid⁴⁶
- 1 Charles Matthews⁴⁷
- 3 ChildofMidnight⁴⁸
- 2 Chris the speller⁴⁹
- 1 Chrisahn⁵⁰
- 1 Circeus⁵¹
- 2 Citation bot⁵²
- 2 Ckatz⁵³
- 2 ClueBot⁵⁴
- 1 ClueBot NG⁵⁵
- 1 CmdrObot⁵⁶
- 1 Cnilep⁵⁷
- 2 Collingwood⁵⁸
- 1 CommonsDelinker⁵⁹
- 1 Contributor777⁶⁰
- 1 Counsell⁶¹
- 1 CrazyDreamer⁶²
- 1 Crouch, Swale⁶³
- 1 Crusoe8181⁶⁴
- 1 CsDix⁶⁵
- 9 Cydebot⁶⁶
- 2 D6⁶⁷
- 1 Daask⁶⁸
- 1 Daniel the Monk⁶⁹
- 1 DanielPenfield⁷⁰

-
- 46 <https://en.wikipedia.org/w/index.php?title=User:Caustoncid&action=edit&redlink=1>
 - 47 https://en.wikipedia.org/wiki/User:Charles_Matthews
 - 48 <https://en.wikipedia.org/wiki/User:ChildofMidnight>
 - 49 https://en.wikipedia.org/wiki/User:Chris_the_speller
 - 50 <https://en.wikipedia.org/wiki/User:Chrisahn>
 - 51 <https://en.wikipedia.org/wiki/User:Circeus>
 - 52 https://en.wikipedia.org/wiki/User:Citation_bot
 - 53 <https://en.wikipedia.org/wiki/User:Ckatz>
 - 54 <https://en.wikipedia.org/wiki/User:ClueBot>
 - 55 https://en.wikipedia.org/wiki/User:ClueBot_NG
 - 56 <https://en.wikipedia.org/wiki/User:CmdrObot>
 - 57 <https://en.wikipedia.org/wiki/User:Cnilep>
 - 58 <https://en.wikipedia.org/wiki/User:Collingwood>
 - 59 <https://en.wikipedia.org/wiki/User:CommonsDelinker>
 - 60 <https://en.wikipedia.org/wiki/User:Contributor777>
 - 61 <https://en.wikipedia.org/wiki/User:Counsell>
 - 62 <https://en.wikipedia.org/wiki/User:CrazyDreamer>
 - 63 https://en.wikipedia.org/wiki/User:Crouch,_Swale
 - 64 <https://en.wikipedia.org/wiki/User:Crusoe8181>
 - 65 <https://en.wikipedia.org/wiki/User:CsDix>
 - 66 <https://en.wikipedia.org/wiki/User:Cydebot>
 - 67 <https://en.wikipedia.org/wiki/User:D6>
 - 68 <https://en.wikipedia.org/wiki/User:Daask>
 - 69 https://en.wikipedia.org/wiki/User:Daniel_the_Monk
 - 70 <https://en.wikipedia.org/wiki/User:DanielPenfield>

1 DanielZM⁷¹
1 Davenbrutte⁷²
2 David-the-Monk⁷³
1 Deacon of Pndapetzim⁷⁴
1 Deb⁷⁵
1 Delepine~enwiki⁷⁶
1 Delirium⁷⁷
1 Demogorgon's Soup-taster⁷⁸
1 Derek Ross⁷⁹
1 Deskana⁸⁰
1 Dexbot⁸¹
1 DiCorpoR⁸²
1 DilletantiAnonymous⁸³
1 Dimadick⁸⁴
1 DizzinessOfFreedom⁸⁵
1 Dl2000⁸⁶
1 Docu⁸⁷
1 Don Scots⁸⁸
1 Don eriugena⁸⁹
1 Donut Scuss⁹⁰
1 DrBobDrBob⁹¹
1 DragonBot⁹²
1 Dune Scooter⁹³
1 Dune Scutos⁹⁴
4 Dunkin212⁹⁵

71 <https://en.wikipedia.org/wiki/User:DanielZM>
72 <https://en.wikipedia.org/w/index.php?title=User:Davenbrutte&action=edit&redlink=1>
73 <https://en.wikipedia.org/w/index.php?title=User:David-the-Monk&action=edit&redlink=1>
74 https://en.wikipedia.org/wiki/User:Deacon_of_Pndapetzim
75 <https://en.wikipedia.org/wiki/User:Delepine~enwiki>
76 <https://en.wikipedia.org/w/index.php?title=User:Delepine~enwiki&action=edit&redlink=1>
77 <https://en.wikipedia.org/wiki/User:Delirium>
78 https://en.wikipedia.org/wiki/User:Demogorgon%2527s_Soup-taster
79 https://en.wikipedia.org/wiki/User:Derek_Ross
80 <https://en.wikipedia.org/wiki/User:Deskana>
81 <https://en.wikipedia.org/wiki/User:Dexbot>
82 <https://en.wikipedia.org/w/index.php?title=User:DiCorpoR&action=edit&redlink=1>
83 <https://en.wikipedia.org/wiki/User:DilletantiAnonymous>
84 <https://en.wikipedia.org/wiki/User:Dimadick>
85 <https://en.wikipedia.org/wiki/User:DizzinessOfFreedom>
86 <https://en.wikipedia.org/wiki/User:Dl2000>
87 <https://en.wikipedia.org/wiki/User:Docu>
88 https://en.wikipedia.org/w/index.php?title=User:Don_Scots&action=edit&redlink=1
89 https://en.wikipedia.org/w/index.php?title=User:Don_eriugena&action=edit&redlink=1
90 https://en.wikipedia.org/w/index.php?title=User:Donut_Scuss&action=edit&redlink=1
91 <https://en.wikipedia.org/w/index.php?title=User:DrBobDrBob&action=edit&redlink=1>
92 <https://en.wikipedia.org/wiki/User:DragonBot>
93 https://en.wikipedia.org/w/index.php?title=User:Dune_Scooter&action=edit&redlink=1
94 https://en.wikipedia.org/w/index.php?title=User:Dune_Scutos&action=edit&redlink=1
95 <https://en.wikipedia.org/w/index.php?title=User:Dunkin212&action=edit&redlink=1>

```

1 Duns Sage96
1 EamonnPKeane97
1 EdH98
2 EdJohnston99
1 Editor300100
1 Edonovan101
1 Edward Keith Harrison102
1 El Sandifer103
1 Elb2000104
1 Eldredo105
2 EmausBot106
1 Epi100107
1 Error108
1 EvanProdromou109
1 FeanorStar7110
1 Feminist111
1 Fergananim112
1 FinnWiki113
1 Finny Homoor114
1 FirstScot115
4 FlaBot116
1 FrescoBot117
1 Full-date unlinking bot118
2 GiantSnowman119
2 GioCM120

```

```

96 https://en.wikipedia.org/w/index.php?title=User:Duns_Sage&action=edit&redlink=1
97 https://en.wikipedia.org/wiki/User:EamonnPKeane
98 https://en.wikipedia.org/wiki/User:EdH
99 https://en.wikipedia.org/wiki/User:EdJohnston
100 https://en.wikipedia.org/w/index.php?title=User:Editor300&action=edit&redlink=1
101 https://en.wikipedia.org/wiki/User:Edonovan
102 https://en.wikipedia.org/w/index.php?title=User:Edward_Keith_Harrison&action=edit&
    redlink=1
103 https://en.wikipedia.org/wiki/User:El_Sandifer
104 https://en.wikipedia.org/wiki/User:Elb2000
105 https://en.wikipedia.org/wiki/User:Eldredo
106 https://en.wikipedia.org/wiki/User:EmausBot
107 https://en.wikipedia.org/wiki/User:Epi100
108 https://en.wikipedia.org/wiki/User:Error
109 https://en.wikipedia.org/wiki/User:EvanProdromou
110 https://en.wikipedia.org/wiki/User:FeanorStar7
111 https://en.wikipedia.org/wiki/User:Feminist
112 https://en.wikipedia.org/wiki/User:Fergananim
113 https://en.wikipedia.org/wiki/User:FinnWiki
114 https://en.wikipedia.org/w/index.php?title=User:Finny_Homoor&action=edit&redlink=1
115 https://en.wikipedia.org/wiki/User:FirstScot
116 https://en.wikipedia.org/wiki/User:FlaBot
117 https://en.wikipedia.org/wiki/User:FrescoBot
118 https://en.wikipedia.org/wiki/User:Full-date_unlinking_bot
119 https://en.wikipedia.org/wiki/User:GiantSnowman
120 https://en.wikipedia.org/w/index.php?title=User:GioCM&action=edit&redlink=1

```

- 1 Gioto49¹²¹
1 Glen¹²²
21 Gobonobo¹²³
1 GoingBatty¹²⁴
1 Goku122¹²⁵
1 Gongshow¹²⁶
1 Good Olfactory¹²⁷
1 Graham87¹²⁸
11 Gregbard¹²⁹
1 Greyduck2¹³⁰
1 Grimhelm¹³¹
2 GrinBot~enwiki¹³²
1 G\xf6nniX¹³³
2 Hairy Dude¹³⁴
2 Helpful Pixie Bot¹³⁵
2 Hephaestos¹³⁶
1 Heron¹³⁷
1 Hibernian¹³⁸
1 Hiplibrarianship¹³⁹
1 HistoryofIran¹⁴⁰
2 Hmains¹⁴¹
1 Huhsunqu¹⁴²
1 Hulgded¹⁴³
1 Hyacinth¹⁴⁴
3 Idiosyncratic philosopher¹⁴⁵

121 <https://en.wikipedia.org/w/index.php?title=User:Gioto49&action=edit&redlink=1>

122 <https://en.wikipedia.org/wiki/User:Glen>

123 <https://en.wikipedia.org/wiki/User:Gobonobo>

124 <https://en.wikipedia.org/wiki/User:GoingBatty>

125 <https://en.wikipedia.org/wiki/User:Goku122>

126 <https://en.wikipedia.org/wiki/User:Gongshow>

127 https://en.wikipedia.org/wiki/User:Good_Olfactory

128 <https://en.wikipedia.org/wiki/User:Graham87>

129 <https://en.wikipedia.org/wiki/User:Gregbard>

130 <https://en.wikipedia.org/wiki/User:Greyduck2>

131 <https://en.wikipedia.org/wiki/User:Grimhelm>

132 <https://en.wikipedia.org/wiki/User:GrinBot~enwiki>

133 <https://en.wikipedia.org/wiki/User:G%25C3%25BCnniX>

134 https://en.wikipedia.org/wiki/User:Hairy_Dude

135 https://en.wikipedia.org/wiki/User:Helpful_Pixie_Bot

136 <https://en.wikipedia.org/wiki/User:Hephaestos>

137 <https://en.wikipedia.org/wiki/User:Heron>

138 <https://en.wikipedia.org/wiki/User:Hibernian>

139 <https://en.wikipedia.org/wiki/User:Hiplibrarianship>

140 <https://en.wikipedia.org/wiki/User:HistoryofIran>

141 <https://en.wikipedia.org/wiki/User:Hmains>

142 <https://en.wikipedia.org/wiki/User:Huhsunqu>

143 <https://en.wikipedia.org/wiki/User:Hulgded>

144 <https://en.wikipedia.org/wiki/User:Hyacinth>

145 https://en.wikipedia.org/wiki/User:Idiosyncratic_philosopher

1 Igni¹⁴⁶
1 Ikzing¹⁴⁷
4 InternetArchiveBot¹⁴⁸
1 Inwind¹⁴⁹
6 IvanScrooge98¹⁵⁰
2 JASpencer¹⁵¹
2 JC7V7DC5768¹⁵²
1 JJMC89 bot III¹⁵³
1 JKKeck¹⁵⁴
1 JO_24¹⁵⁵
2 Jack_Zupko¹⁵⁶
1 Jackfork¹⁵⁷
1 Jamesdowallen¹⁵⁸
1 Jamie7687¹⁵⁹
1 Jaraalbe¹⁶⁰
1 JasonWikis¹⁶¹
4 Jlknapp¹⁶²
1 Joao_AMA¹⁶³
1 Jochen_Burghardt¹⁶⁴
2 Joe_Kress¹⁶⁵
1 John_of_Dunse¹⁶⁶
1 John_of_Reading¹⁶⁷
6 Johnbod¹⁶⁸
1 Johnuniq¹⁶⁹
1 Jsmith1000¹⁷⁰

146 <https://en.wikipedia.org/wiki/User:Igni>
147 <https://en.wikipedia.org/wiki/User:Ikzing>
148 <https://en.wikipedia.org/wiki/User:InternetArchiveBot>
149 <https://en.wikipedia.org/wiki/User:Inwind>
150 <https://en.wikipedia.org/wiki/User:IvanScrooge98>
151 <https://en.wikipedia.org/wiki/User:JASpencer>
152 <https://en.wikipedia.org/wiki/User:JC7V7DC5768>
153 https://en.wikipedia.org/wiki/User:JJMC89_bot_III
154 <https://en.wikipedia.org/wiki/User:JKKeck>
155 https://en.wikipedia.org/wiki/User:JO_24
156 https://en.wikipedia.org/w/index.php?title=User:Jack_Zupko&action=edit&redlink=1
157 <https://en.wikipedia.org/wiki/User:Jackfork>
158 <https://en.wikipedia.org/wiki/User:Jamesdowallen>
159 <https://en.wikipedia.org/wiki/User:Jamie7687>
160 <https://en.wikipedia.org/wiki/User:Jaraalbe>
161 <https://en.wikipedia.org/wiki/User:JasonWikis>
162 <https://en.wikipedia.org/w/index.php?title=User:Jlknapp&action=edit&redlink=1>
163 https://en.wikipedia.org/w/index.php?title=User:Joao_AMA&action=edit&redlink=1
164 https://en.wikipedia.org/wiki/User:Jochen_Burghardt
165 https://en.wikipedia.org/wiki/User:Joe_Kress
166 https://en.wikipedia.org/w/index.php?title=User:John_of_Dunse&action=edit&redlink=1
167 https://en.wikipedia.org/wiki/User:John_of_Reading
168 <https://en.wikipedia.org/wiki/User:Johnbod>
169 <https://en.wikipedia.org/wiki/User:Johnuniq>
170 <https://en.wikipedia.org/wiki/User:Jsmith1000>

1 Julien1978¹⁷¹
1 Jumbolino¹⁷²
5 Jumbuck¹⁷³
1 Justme45¹⁷⁴
11 Jzsj¹⁷⁵
1 Kingstowngalway1¹⁷⁶
1 Kaihsu¹⁷⁷
1 Karada¹⁷⁸
1 Karl Dickman¹⁷⁹
2 KasparBot¹⁸⁰
2 Kazvorpal¹⁸¹
1 Keinstein¹⁸²
1 Kibi78704¹⁸³
1 Kimvanderkim¹⁸⁴
1 Kingbird1¹⁸⁵
1 Kismetmagic¹⁸⁶
1 Kjsfgnjoerguedfvfger¹⁸⁷
1 Kline¹⁸⁸
1 Kristephanie¹⁸⁹
1 Kzollman¹⁹⁰
1 Lambiam¹⁹¹
1 Laodah¹⁹²
1 Le vin blanc¹⁹³
1 Leinad-Z¹⁹⁴
1 Lesabendio¹⁹⁵

171 <https://en.wikipedia.org/wiki/User:Julien1978>
172 <https://en.wikipedia.org/wiki/User:Jumbolino>
173 <https://en.wikipedia.org/wiki/User:Jumbuck>
174 <https://en.wikipedia.org/w/index.php?title=User:Justme45&action=edit&redlink=1>
175 <https://en.wikipedia.org/wiki/User:Jzsj>
176 <https://en.wikipedia.org/w/index.php?title=User:Kingstowngalway1&action=edit&redlink=1>
177 <https://en.wikipedia.org/wiki/User:Kaihsu>
178 <https://en.wikipedia.org/wiki/User:Karada>
179 https://en.wikipedia.org/wiki/User:Karl_Dickman
180 <https://en.wikipedia.org/wiki/User:KasparBot>
181 <https://en.wikipedia.org/wiki/User:Kazvorpal>
182 <https://en.wikipedia.org/wiki/User:Keinstein>
183 <https://en.wikipedia.org/wiki/User:Kibi78704>
184 <https://en.wikipedia.org/w/index.php?title=User:Kimvanderkim&action=edit&redlink=1>
185 <https://en.wikipedia.org/wiki/User:Kingbird1>
186 <https://en.wikipedia.org/w/index.php?title=User:Kismetmagic&action=edit&redlink=1>
187 <https://en.wikipedia.org/w/index.php?title=User:Kjsfgnjoerguedfvfger&action=edit&redlink=1>
188 <https://en.wikipedia.org/wiki/User:Kline>
189 <https://en.wikipedia.org/wiki/User:Kristephanie>
190 <https://en.wikipedia.org/wiki/User:Kzollman>
191 <https://en.wikipedia.org/wiki/User:Lambiam>
192 <https://en.wikipedia.org/wiki/User:Laodah>
193 https://en.wikipedia.org/wiki/User:Le_vin_blancl
194 <https://en.wikipedia.org/wiki/User:Leinad-Z>
195 <https://en.wikipedia.org/wiki/User:Lesabendio>

- 1 Lightbot¹⁹⁶
- 1 LikeLakers2¹⁹⁷
- 1 LilHelpa¹⁹⁸
- 1 LilyKitty¹⁹⁹
- 2 LiniShu²⁰⁰
- 1 Littlebum2002²⁰¹
- 1 Lotje²⁰²
- 1 Lowercase sigmabot²⁰³
- 1 Lpgeffen²⁰⁴
- 12 Luc007²⁰⁵
- 2 Luckas-bot²⁰⁶
- 1 Lyonski²⁰⁷
- 1 MacRusgail²⁰⁸
- 2 Maczkopeti²⁰⁹
- 1 Magic links bot²¹⁰
- 2 Magioladitis²¹¹
- 2 Mahjongg²¹²
- 6 Mais oui!²¹³
- 1 Maltesedog²¹⁴
- 1 Mark Ironie²¹⁵
- 3 Maronius²¹⁶
- 3 Materialscientist²¹⁷
- 1 MattSucci²¹⁸
- 1 Mdd²¹⁹
- 1 Meldor²²⁰

-
- 196 <https://en.wikipedia.org/wiki/User:Lightbot>
 - 197 <https://en.wikipedia.org/wiki/User:LikeLakers2>
 - 198 <https://en.wikipedia.org/wiki/User:LilHelpa>
 - 199 <https://en.wikipedia.org/wiki/User:LilyKitty>
 - 200 <https://en.wikipedia.org/wiki/User:LiniShu>
 - 201 <https://en.wikipedia.org/wiki/User:Littlebum2002>
 - 202 <https://en.wikipedia.org/wiki/User:Lotje>
 - 203 https://en.wikipedia.org/wiki/User:Lowercase_sigmabot
 - 204 <https://en.wikipedia.org/wiki/User:Lpgeffen>
 - 205 <https://en.wikipedia.org/w/index.php?title=User:Luc007&action=edit&redlink=1>
 - 206 <https://en.wikipedia.org/wiki/User:Luckas-bot>
 - 207 <https://en.wikipedia.org/wiki/User:Lyonski>
 - 208 <https://en.wikipedia.org/wiki/User:MacRusgail>
 - 209 <https://en.wikipedia.org/w/index.php?title=User:Maczkopeti&action=edit&redlink=1>
 - 210 https://en.wikipedia.org/wiki/User:Magic_links_bot
 - 211 <https://en.wikipedia.org/wiki/User:Magioladitis>
 - 212 <https://en.wikipedia.org/wiki/User:Mahjongg>
 - 213 https://en.wikipedia.org/wiki/User:Mais_oui!
 - 214 <https://en.wikipedia.org/wiki/User:Maltesedog>
 - 215 https://en.wikipedia.org/wiki/User:Mark_Ironie
 - 216 <https://en.wikipedia.org/w/index.php?title=User:Maronius&action=edit&redlink=1>
 - 217 <https://en.wikipedia.org/wiki/User:Materialscientist>
 - 218 <https://en.wikipedia.org/wiki/User:MattSucci>
 - 219 <https://en.wikipedia.org/wiki/User:Mdd>
 - 220 <https://en.wikipedia.org/wiki/User:Meldor>

1 MeltBanana²²¹
1 Mentibot²²²
1 Michaelgfalk²²³
1 Minsbot²²⁴
1 Mladiflozof²²⁵
1 Mnadata²²⁶
1 Mogism²²⁷
3 Monkbot²²⁸
2 Mpolo²²⁹
1 Mqassem²³⁰
1 MrBurns²³¹
5 MrsKrishan²³²
1 Mukogodo²³³
2 Mulvenea²³⁴
7 Mutt Lunker²³⁵
1 Nakon²³⁶
1 NawlinWiki²³⁷
2 Necrothesp²³⁸
1 Neddyseagoon²³⁹
1 Nedrutland²⁴⁰
1 Neelix²⁴¹
1 Nightenbelle²⁴²
1 Nihiltres²⁴³
1 Nikkimaria²⁴⁴
1 Normal Name²⁴⁵

221 <https://en.wikipedia.org/wiki/User:MeltBanana>

222 <https://en.wikipedia.org/wiki/User:Mentibot>

223 <https://en.wikipedia.org/w/index.php?title=User:Michaelgfalk&action=edit&redlink=1>

224 <https://en.wikipedia.org/wiki/User:Minsbot>

225 <https://en.wikipedia.org/wiki/User:Mladiflozof>

226 <https://en.wikipedia.org/w/index.php?title=User:Mnadata&action=edit&redlink=1>

227 <https://en.wikipedia.org/w/index.php?title=User:Mogism&action=edit&redlink=1>

228 <https://en.wikipedia.org/wiki/User:Monkbot>

229 <https://en.wikipedia.org/wiki/User:Mpolo>

230 <https://en.wikipedia.org/w/index.php?title=User:Mqassem&action=edit&redlink=1>

231 <https://en.wikipedia.org/w/index.php?title=User:MrBurns&action=edit&redlink=1>

232 <https://en.wikipedia.org/wiki/User:MrsKrishan>

233 <https://en.wikipedia.org/wiki/User:Mukogodo>

234 <https://en.wikipedia.org/w/index.php?title=User:Mulvenea&action=edit&redlink=1>

235 https://en.wikipedia.org/wiki/User:Mutt_Lunker

236 <https://en.wikipedia.org/wiki/User:Nakon>

237 <https://en.wikipedia.org/wiki/User:NawlinWiki>

238 <https://en.wikipedia.org/wiki/User:Necrothesp>

239 <https://en.wikipedia.org/wiki/User:Neddyseagoon>

240 <https://en.wikipedia.org/wiki/User:Nedrutland>

241 <https://en.wikipedia.org/wiki/User:Neelix>

242 <https://en.wikipedia.org/wiki/User:Nightenbelle>

243 <https://en.wikipedia.org/wiki/User:Nihiltres>

244 <https://en.wikipedia.org/wiki/User:Nikkimaria>

245 https://en.wikipedia.org/wiki/User:Normal_Name

- 2 Octave 444²⁴⁶
- 3 Ogress²⁴⁷
- 47 Omnipaedista²⁴⁸
- 63 Ontoraul²⁴⁹
 - 1 Orange Suede Sofa²⁵⁰
 - 1 Ortolan88²⁵¹
 - 1 PBS²⁵²
 - 2 PBS-AWB²⁵³
 - 1 PPEMES²⁵⁴
 - 2 Palthrow²⁵⁵
 - 1 PatGallacher²⁵⁶
 - 1 Patar Demien²⁵⁷
 - 7 Peaceray²⁵⁸
 - 1 Peter Damian²⁵⁹
 - 1 Peter Kaminski²⁶⁰
 - 1 PeterNisbet²⁶¹
 - 1 Phatius McBluff²⁶²
 - 1 Philip Cross²⁶³
 - 1 PhilipC²⁶⁴
 - 1 Pinar²⁶⁵
 - 1 PipepBot²⁶⁶
 - 1 Piratejosh85²⁶⁷
 - 1 Polisher of Cobwebs²⁶⁸
 - 1 Polylerus²⁶⁹
 - 1 Poor Yorick²⁷⁰

-
- 246 https://en.wikipedia.org/w/index.php?title=User:Octave_444&action=edit&redlink=1
 - 247 <https://en.wikipedia.org/wiki/User:Ogress>
 - 248 <https://en.wikipedia.org/wiki/User:Omnipaedista>
 - 249 <https://en.wikipedia.org/wiki/User:Ontoraul>
 - 250 https://en.wikipedia.org/wiki/User:Orange_Suede_Sofa
 - 251 <https://en.wikipedia.org/wiki/User:Ortolan88>
 - 252 <https://en.wikipedia.org/wiki/User:PBS>
 - 253 <https://en.wikipedia.org/wiki/User:PBS-AWB>
 - 254 <https://en.wikipedia.org/wiki/User:PPEMES>
 - 255 <https://en.wikipedia.org/wiki/User:Palthrow>
 - 256 <https://en.wikipedia.org/wiki/User:PatGallacher>
 - 257 https://en.wikipedia.org/wiki/User:Patar_Demien
 - 258 <https://en.wikipedia.org/wiki/User:Peaceray>
 - 259 https://en.wikipedia.org/wiki/User:Peter_Damian
 - 260 https://en.wikipedia.org/wiki/User:Peter_Kaminski
 - 261 <https://en.wikipedia.org/w/index.php?title=User:PeterNisbet&action=edit&redlink=1>
 - 262 https://en.wikipedia.org/wiki/User:Phatius_McBluff
 - 263 https://en.wikipedia.org/wiki/User:Philip_Cross
 - 264 <https://en.wikipedia.org/wiki/User:PhilipC>
 - 265 <https://en.wikipedia.org/wiki/User:Pinar>
 - 266 <https://en.wikipedia.org/wiki/User:PipepBot>
 - 267 <https://en.wikipedia.org/wiki/User:Piratejosh85>
 - 268 https://en.wikipedia.org/wiki/User:Polisher_of_Cobwebs
 - 269 <https://en.wikipedia.org/wiki/User:Polylerus>
 - 270 https://en.wikipedia.org/wiki/User:Poor_Yorick

- 1 ProtectionTaggingBot²⁷¹
- 13 Pseudo-Dionysius the areopagite²⁷²
- 1 PsychoInfiltrator²⁷³
- 1 Ptbotgourou²⁷⁴
- 63 Quisquiliae²⁷⁵
- 1 Quodvultdeus²⁷⁶
- 1 RJO²⁷⁷
- 1 RadPilBar²⁷⁸
- 1 Raghith²⁷⁹
- 1 RandomCritic²⁸⁰
- 2 Rathfelder²⁸¹
- 1 Ravenswing²⁸²
- 2 Rbraunwa²⁸³
- 1 Red Phoenix²⁸⁴
- 2 RedBot²⁸⁵
- 2 Regulov²⁸⁶
- 1 Rei-bot²⁸⁷
- 6 Renata²⁸⁸
- 3 RibotBOT²⁸⁹
- 1 Rjwilmsi²⁹⁰
- 1 RjwilmsiBot²⁹¹
- 2 Robbot²⁹²
- 1 Rowan Adams²⁹³
- 1 Rubinbot²⁹⁴
- 1 Run to the hills, cos the end of the world is soon!²⁹⁵

271 <https://en.wikipedia.org/wiki/User:ProtectionTaggingBot>

272 https://en.wikipedia.org/wiki/User:Pseudo-Dionysius_the_areopagite

273 <https://en.wikipedia.org/wiki/User:PsychoInfiltrator>

274 <https://en.wikipedia.org/wiki/User:Ptbotgourou>

275 <https://en.wikipedia.org/wiki/User:Quisquiliae>

276 <https://en.wikipedia.org/wiki/User:Quodvultdeus>

277 <https://en.wikipedia.org/wiki/User:RJO>

278 <https://en.wikipedia.org/w/index.php?title=User:RadPilBar&action=edit&redlink=1>

279 <https://en.wikipedia.org/wiki/User:Raghith>

280 <https://en.wikipedia.org/wiki/User:RandomCritic>

281 <https://en.wikipedia.org/wiki/User:Rathfelder>

282 <https://en.wikipedia.org/wiki/User:Ravenswing>

283 <https://en.wikipedia.org/wiki/User:Rbraunwa>

284 https://en.wikipedia.org/wiki/User:Red_Phoenix

285 <https://en.wikipedia.org/wiki/User:RedBot>

286 <https://en.wikipedia.org/wiki/User:Regulov>

287 <https://en.wikipedia.org/wiki/User:Rei-bot>

288 <https://en.wikipedia.org/wiki/User:Renata>

289 <https://en.wikipedia.org/wiki/User:RibotBOT>

290 <https://en.wikipedia.org/wiki/User:Rjwilmsi>

291 <https://en.wikipedia.org/wiki/User:RjwilmsiBot>

292 <https://en.wikipedia.org/wiki/User:Robbot>

293 https://en.wikipedia.org/w/index.php?title=User:Rowan_Adams&action=edit&redlink=1

294 <https://en.wikipedia.org/wiki/User:Rubinbot>

295 https://en.wikipedia.org/wiki/User:Run_to_the_hills,_cos_the_end_of_the_world_is_soon!

-
- 1 Ruszewski²⁹⁶
 - 3 Rwflammang²⁹⁷
 - 3 Sabrebd²⁹⁸
 - 1 Safebreaker²⁹⁹
 - 1 Sahimrobot³⁰⁰
 - 1 Sakura_Cartelet³⁰¹
 - 3 Salorra³⁰²
 - 1 Sandius³⁰³
 - 2 Sara_Uckelman³⁰⁴
 - 1 SashatoBot³⁰⁵
 - 2 Saturdayopen³⁰⁶
 - 1 Sburke³⁰⁷
 - 1 Scotus12³⁰⁸
 - 2 Ser_Amantio_di_Nicolao³⁰⁹
 - 1 Serols³¹⁰
 - 1 Sethmahoney³¹¹
 - 2 Sfahey³¹²
 - 2 Shanoman³¹³
 - 1 Shellwood³¹⁴
 - 1 SieBot³¹⁵
 - 2 Sigehelmus³¹⁶
 - 1 Simonides³¹⁷
 - 1 Sirmylesnagopaleentheda³¹⁸
 - 1 Sluzzelin³¹⁹
 - 1 Srnec³²⁰

-
- 296 <https://en.wikipedia.org/wiki/User:Ruszewski>
 - 297 <https://en.wikipedia.org/wiki/User:Rwflammang>
 - 298 <https://en.wikipedia.org/wiki/User:Sabrebd>
 - 299 <https://en.wikipedia.org/wiki/User:Safebreaker>
 - 300 <https://en.wikipedia.org/wiki/User:Sahimrobot>
 - 301 https://en.wikipedia.org/wiki/User:Sakura_Cartelet
 - 302 <https://en.wikipedia.org/w/index.php?title=User:Salorra&action=edit&redlink=1>
 - 303 <https://en.wikipedia.org/wiki/User:Sandius>
 - 304 https://en.wikipedia.org/wiki/User:Sara_Uckelman
 - 305 <https://en.wikipedia.org/wiki/User:SashatoBot>
 - 306 <https://en.wikipedia.org/w/index.php?title=User:Saturdayopen&action=edit&redlink=1>
 - 307 <https://en.wikipedia.org/wiki/User:Sburke>
 - 308 <https://en.wikipedia.org/wiki/User:Scotus12>
 - 309 https://en.wikipedia.org/wiki/User:Ser_Amantio_di_Nicolao
 - 310 <https://en.wikipedia.org/w/index.php?title=User:Serols&action=edit&redlink=1>
 - 311 <https://en.wikipedia.org/wiki/User:Sethmahoney>
 - 312 <https://en.wikipedia.org/wiki/User:Sfahey>
 - 313 <https://en.wikipedia.org/wiki/User:Shanoman>
 - 314 <https://en.wikipedia.org/wiki/User:Shellwood>
 - 315 <https://en.wikipedia.org/wiki/User:SieBot>
 - 316 <https://en.wikipedia.org/wiki/User:Sigehelmus>
 - 317 <https://en.wikipedia.org/wiki/User:Simonides>
 - 318 <https://en.wikipedia.org/wiki/User:Sirmylesnagopaleentheda>
 - 319 <https://en.wikipedia.org/wiki/User:Sluzzelin>
 - 320 <https://en.wikipedia.org/wiki/User:Srnec>

1 Stapletongrey³²¹
6 Stdaggett³²²
1 Stephensuleeman³²³
1 SteveMcCluskey³²⁴
1 Stevens1³²⁵
1 Str1977³²⁶
1 Sun Creator³²⁷
1 Sunflower Dad³²⁸
1 Suramik³²⁹
4 Syncategoremata³³⁰
1 TXiKiBoT³³¹
1 TannyC³³²
4 Tarchon³³³
1 Technoscotus³³⁴
1 Template namespace initialisation script³³⁵
1 Tenpop421³³⁶
3 Tentatio21³³⁷
2 Tevildo³³⁸
1 The Eloquent Peasant³³⁹
1 The Tetrast³⁴⁰
1 The Traditionalist³⁴¹
1 The.helping.people.tick³⁴²
4 Theol11111³⁴³
1 Thephilfolta123³⁴⁴
1 Thijs!bot³⁴⁵

321 <https://en.wikipedia.org/w/index.php?title=User:Stapletongrey&action=edit&redlink=1>
322 <https://en.wikipedia.org/w/index.php?title=User:Stdaggett&action=edit&redlink=1>
323 <https://en.wikipedia.org/wiki/User:Stephensuleeman>
324 <https://en.wikipedia.org/wiki/User:SteveMcCluskey>
325 <https://en.wikipedia.org/w/index.php?title=User:Stevens1&action=edit&redlink=1>
326 <https://en.wikipedia.org/wiki/User:Str1977>
327 https://en.wikipedia.org/wiki/User:Sun_Creator
328 https://en.wikipedia.org/wiki/User:Sunflower_Dad
329 <https://en.wikipedia.org/w/index.php?title=User:Suramik&action=edit&redlink=1>
330 <https://en.wikipedia.org/wiki/User:Syncategoremata>
331 <https://en.wikipedia.org/wiki/User:TXiKiBoT>
332 <https://en.wikipedia.org/w/index.php?title=User:TannyC&action=edit&redlink=1>
333 <https://en.wikipedia.org/wiki/User:Tarchon>
334 <https://en.wikipedia.org/w/index.php?title=User:Technoscotus&action=edit&redlink=1>
335 https://en.wikipedia.org/wiki/User:Template_namespace_initialisation_script
336 <https://en.wikipedia.org/wiki/User:Tenpop421>
337 <https://en.wikipedia.org/w/index.php?title=User:Tentatio21&action=edit&redlink=1>
338 <https://en.wikipedia.org/wiki/User:Tevildo>
339 https://en.wikipedia.org/wiki/User:The_Eloquent_Peasant
340 https://en.wikipedia.org/wiki/User:The_Tetrast
341 https://en.wikipedia.org/wiki/User:The_Traditionalist
342 <https://en.wikipedia.org/wiki/User:The.helping.people.tick>
343 <https://en.wikipedia.org/w/index.php?title=User:Theol11111&action=edit&redlink=1>
344 <https://en.wikipedia.org/w/index.php?title=User:Thephilfolta123&action=edit&redlink=1>
345 <https://en.wikipedia.org/wiki/User:Thijs!bot>

1 Thinklines111³⁴⁶
 4 Thomasmeeks³⁴⁷
 1 TjBot³⁴⁸
 5 Tommypelegrin³⁴⁹
 1 Tony164³⁵⁰
 1 Traderreddy³⁵¹
 1 Trevor Burnham³⁵²
 1 Trit³⁵³
 1 Tronno³⁵⁴
 1 U all so mad right now³⁵⁵
 1 Ukexpat³⁵⁶
 2 Ulysses54³⁵⁷
 1 Unyoyega³⁵⁸
 1 Urban elephant³⁵⁹
 1 User-duck³⁶⁰
 1 VIAFbot³⁶¹
 1 VarlamTikhonovich³⁶²
 1 Vclaw³⁶³
 1 VegaDark³⁶⁴
 1 VivaEmilyDavies³⁶⁵
 1 VolkovBot³⁶⁶
 1 Walterego³⁶⁷
 1 Wareh³⁶⁸
 2 Wertperch³⁶⁹
 1 WhiteKnight138³⁷⁰

346 <https://en.wikipedia.org/w/index.php?title=User:Thinklines111&action=edit&redlink=1>
 347 <https://en.wikipedia.org/wiki/User:Thomasmeeks>
 348 <https://en.wikipedia.org/wiki/User:TjBot>
 349 <https://en.wikipedia.org/wiki/User:Tommypelegrin>
 350 <https://en.wikipedia.org/wiki/User:Tony164>
 351 <https://en.wikipedia.org/wiki/User:Traderreddy>
 352 https://en.wikipedia.org/wiki/User:Trevor_Burnham
 353 <https://en.wikipedia.org/wiki/User:Trit>
 354 https://en.wikipedia.org/w/index.php?title=User:U_all_so_mad_right_now&action=edit&redlink=1
 355 <https://en.wikipedia.org/wiki/User:Ukexpat>
 356 <https://en.wikipedia.org/w/index.php?title=User:Ulysses54&action=edit&redlink=1>
 357 <https://en.wikipedia.org/w/index.php?title=User:Unyoyega&action=edit&redlink=1>
 358 https://en.wikipedia.org/w/index.php?title=User:Urban_elephant&action=edit&redlink=1
 359 <https://en.wikipedia.org/w/index.php?title=User:VarlamTikhonovich&action=edit&redlink=1>
 360 <https://en.wikipedia.org/wiki/User:User-duck>
 361 <https://en.wikipedia.org/wiki/User:VIAFbot>
 362 <https://en.wikipedia.org/w/index.php?title=User:Vclaw&action=edit&redlink=1>
 363 <https://en.wikipedia.org/w/index.php?title=User:VegaDark&action=edit&redlink=1>
 364 <https://en.wikipedia.org/w/index.php?title=User:VivaEmilyDavies&action=edit&redlink=1>
 365 <https://en.wikipedia.org/w/index.php?title=User:VolkovBot&action=edit&redlink=1>
 366 <https://en.wikipedia.org/w/index.php?title=User:Walterego&action=edit&redlink=1>
 367 <https://en.wikipedia.org/w/index.php?title=User:Wareh&action=edit&redlink=1>
 368 <https://en.wikipedia.org/w/index.php?title=User:Wertperch&action=edit&redlink=1>
 369 <https://en.wikipedia.org/w/index.php?title=User:WhiteKnight138&action=edit&redlink=1>
 370 <https://en.wikipedia.org/wiki/User:WhiteKnight138>

- 1 Whosyourjudas³⁷¹
- 1 WikiCleanerBot³⁷²
- 2 Wikid77³⁷³
- 2 WikitanvirBot³⁷⁴
- 1 William Meltdown³⁷⁵
- 1 William of Attainder³⁷⁶
- 2 William the Surveyor³⁷⁷
- 1 Wje³⁷⁸
- 1 Woodlot³⁷⁹
- 1 Woohookitty³⁸⁰
- 1 Workman³⁸¹
- 2 Wowaconia³⁸²
- 1 XLinkBot³⁸³
- 1 Xqbot³⁸⁴
- 1 YUL89YYZ³⁸⁵
- 6 Yobot³⁸⁶
- 4 YurikBot³⁸⁷
- 1 ZFT³⁸⁸
- 4 Zacwill³⁸⁹
- 1 Александър³⁹⁰
- 1 ████³⁹¹

371 <https://en.wikipedia.org/wiki/User:Whosyourjudas>

372 <https://en.wikipedia.org/wiki/User:WikiCleanerBot>

373 <https://en.wikipedia.org/wiki/User:Wikid77>

374 <https://en.wikipedia.org/wiki/User:WikitanvirBot>

375 https://en.wikipedia.org/w/index.php?title=User:William_Meltdown&action=edit&redlink=1

376 https://en.wikipedia.org/w/index.php?title=User:William_of_Attainder&action=edit&redlink=1

377 https://en.wikipedia.org/w/index.php?title=User:William_the_Surveyor&action=edit&redlink=1

378 <https://en.wikipedia.org/w/index.php?title=User:Wje&action=edit&redlink=1>

379 <https://en.wikipedia.org/wiki/User:Woodlot>

380 <https://en.wikipedia.org/wiki/User:Woohookitty>

381 <https://en.wikipedia.org/wiki/User:Workman>

382 <https://en.wikipedia.org/wiki/User:Wowaconia>

383 <https://en.wikipedia.org/wiki/User:XLinkBot>

384 <https://en.wikipedia.org/wiki/User:Xqbot>

385 <https://en.wikipedia.org/wiki/User:YUL89YYZ>

386 <https://en.wikipedia.org/wiki/User:Yobot>

387 <https://en.wikipedia.org/wiki/User:YurikBot>

388 <https://en.wikipedia.org/w/index.php?title=User:ZFT&action=edit&redlink=1>

389 <https://en.wikipedia.org/wiki/User:Zacwill>

390 <https://en.wikipedia.org/wiki/User:%25D0%2590%25D0%25BB%25D0%25B5%25D0%25BA%25D1%2581%25D0%25B0%25D0%25BD%25D0%25B4%25D1%25258A%25D1%252580>

391 <https://en.wikipedia.org/w/index.php?title=User:%25E8%25258D%252586%25E6%25A3%252598%25E5%252586%25A0%25E5%252586%2595&action=edit&redlink=1>

List of Figures

- GFDL: Gnu Free Documentation License. <http://www.gnu.org/licenses/fdl.html>
- cc-by-sa-3.0: Creative Commons Attribution ShareAlike 3.0 License. <http://creativecommons.org/licenses/by-sa/3.0/>
- cc-by-sa-2.5: Creative Commons Attribution ShareAlike 2.5 License. <http://creativecommons.org/licenses/by-sa/2.5/>
- cc-by-sa-2.0: Creative Commons Attribution ShareAlike 2.0 License. <http://creativecommons.org/licenses/by-sa/2.0/>
- cc-by-sa-1.0: Creative Commons Attribution ShareAlike 1.0 License. <http://creativecommons.org/licenses/by-sa/1.0/>
- cc-by-2.0: Creative Commons Attribution 2.0 License. <http://creativecommons.org/licenses/by/2.0/>
- cc-by-2.0: Creative Commons Attribution 2.0 License. <http://creativecommons.org/licenses/by/2.0/deed.en>
- cc-by-2.5: Creative Commons Attribution 2.5 License. <http://creativecommons.org/licenses/by/2.5/deed.en>
- cc-by-3.0: Creative Commons Attribution 3.0 License. <http://creativecommons.org/licenses/by/3.0/deed.en>
- GPL: GNU General Public License. <http://www.gnu.org/licenses/gpl-2.0.txt>
- LGPL: GNU Lesser General Public License. <http://www.gnu.org/licenses/lgpl.html>
- PD: This image is in the public domain.
- ATTR: The copyright holder of this file allows anyone to use it for any purpose, provided that the copyright holder is properly attributed. Redistribution, derivative work, commercial use, and all other use is permitted.
- EURO: This is the common (reverse) face of a euro coin. The copyright on the design of the common face of the euro coins belongs to the European Commission. Authorised is reproduction in a format without relief (drawings, paintings, films) provided they are not detrimental to the image of the euro.
- LFK: Lizenz Freie Kunst. <http://artlibre.org/licence/lal/de>
- CFR: Copyright free use.

- EPL: Eclipse Public License. <http://www.eclipse.org/org/documents/epl-v10.php>

Copies of the GPL, the LGPL as well as a GFDL are included in chapter Licenses³⁹². Please note that images in the public domain do not require attribution. You may click on the image numbers in the following table to open the webpage of the images in your webbrowser.

392 Chapter 3 on page 61

1	Kaihsu Tai ³⁹³ , Kaihsu Tai ³⁹⁴	
2	Duns Scotus's Sentences edited by Thomas Penketh (d. 1487) and Bartolomeo Bellati (d.1479). Printed by Johannes de Colonia and Johannes Manthen in Venice in 1477	
3	Cronholm144 ³⁹⁵ created this image using a file by Hautala ³⁹⁶ - Emblem of Vatican City State.svg ³⁹⁷ , who had created his file using PD art from Open Clip Art Library ³⁹⁸ and uploaded on 13 July 2006. uploaded this version on 19 January 2007., Cronholm144 ³⁹⁹ created this image using a file by Hautala ⁴⁰⁰ - Emblem of Vatican City State.svg ⁴⁰¹ , who had created his file using PD art from Open Clip Art Library ⁴⁰² and uploaded on 13 July 2006. uploaded this version on 19 January 2007.	
4	MarkusMark ⁴⁰³ , MarkusMark ⁴⁰⁴	
5	The original uploader was Magnus Manske ⁴⁰⁵ at English Wikipedia ⁴⁰⁶ . Later versions were uploaded by Optimager ⁴⁰⁷ at en.wikipedia ⁴⁰⁸ .	
6	ChrisiPK, Guillom, INeverCry, Jarekt, JuTa, Leyo, Lokal Profil, MichaelMaggs, NielsF, Rei-artur, Rocket000, Romaine, Ruthven, Steinsplitter	
7	Rei-artur ⁴⁰⁹ , Rei-artur ⁴¹⁰	

393 <http://commons.wikimedia.org/wiki/User:Kaihsu>

394 <https://commons.wikimedia.org/wiki/User:Kaihsu>

395 <http://commons.wikimedia.org/wiki/User:Cronholm144>

396 <http://commons.wikimedia.org/wiki/User:Hautala>

397 http://commons.wikimedia.org/wiki/File:Emblem_of_Vatican_City_State.svg

398 http://commons.wikimedia.org/wiki/Open_Clip_Art_Library

399 <https://commons.wikimedia.org/wiki/User:Cronholm144>

400 <https://commons.wikimedia.org/wiki/User:Hautala>

401 https://commons.wikimedia.org/wiki/File:Emblem_of_Vatican_City_State.svg

402 http://commons.wikimedia.org/wiki/Open_Clip_Art_Library

403 <http://commons.wikimedia.org/w/index.php?title=User:MarkusMark&action=edit&redlink=1>

404 <https://commons.wikimedia.org/w/index.php?title=User:MarkusMark&action=edit&redlink=1>

405 https://en.wikipedia.org/wiki/User:Magnus_Manske

406 <https://en.wikipedia.org/wiki/>

407 <https://en.wikipedia.org/wiki/User:Optimager>

408 <https://en.wikipedia.org/>

409 <http://commons.wikimedia.org/wiki/User:Rei-artur>

410 <https://commons.wikimedia.org/wiki/User:Rei-artur>

3 Licenses

3.1 GNU GENERAL PUBLIC LICENSE

Version 3, 29 June 2007

Copyright © 2007 Free Software Foundation, Inc. <<http://fsf.org/>>

Everyone is permitted to copy and distribute verbatim copies of this license document, but changing it is not allowed. Preamble

The GNU General Public License is a free, copyleft license for software and other kinds of works.

The licenses for most software and other practical works are designed to take away your freedom to share and change the works. By contrast, the GNU General Public License is intended to guarantee your freedom to share and change all versions of a program—to make sure it remains free software for all its users. We, the Free Software Foundation, use the GNU General Public License for most of our software; it applies also to any other work released this way by its authors. You can apply it to your programs, too.

When we speak of free software, we are referring to freedom, not price. Our General Public Licenses are designed to make sure that you have the freedom to distribute copies of free software (and charge for them if you wish), that you receive source code or can get it if you want it, that you can change the software or use pieces of it in new free programs, and that you know you can do these things.

To protect your rights, we need to prevent others from denying you these rights or asking you to surrender the rights. Therefore, you have certain responsibilities if you distribute copies of the software, or if you modify it: responsibilities to respect the freedom of others.

For example, if you distribute copies of such a program, whether gratis or for a fee, you must pass on to the recipients the same freedoms that you received. You must make sure that they, too, receive or can get the source code. And you must show them these terms so they know their rights.

Developers that use the GNU GPL protect your rights with two steps: (1) assert copyright on the software, and (2) offer you this License giving you legal permission to copy, distribute and/or modify it.

For the developers' and authors' protection, the GPL clearly explains that there is no warranty for this free software. For both users' and authors' sake, the GPL requires that modified versions be marked as changed, so that their problems will not be attributed erroneously to authors of previous versions.

Some devices are designed to deny users access to install or run modified versions of the software inside them, although the manufacturer can do so. This is fundamentally incompatible with the aim of protecting users' freedom to change the software. The systematic pattern of such abuse occurs in the area of products for individuals to use, which is precisely where it is most unacceptable. Therefore, we have designed this version of the GPL to prohibit the practice for those products. If such problems arise substantially in other domains, we stand ready to extend this provision to those domains in future versions of the GPL, as needed to protect the freedom of users.

Finally, every program is threatened constantly by software patents. States should not allow patents to restrict development and use of software on general-purpose computers, but in those that do, we wish to avoid the special danger that patents applied to a free program could make it effectively proprietary. To prevent this, the GPL assures that patents cannot be used to render the program non-free.

The precise terms and conditions for copying, distribution and modification follow. TERMS AND CONDITIONS S. Definitions.

"This License" refers to version 3 of the GNU General Public License.

"Copyright" also means copyright-like laws that apply to other kinds of works, such as semiconductor masks.

"The Program" refers to any copyrighted work licensed under this License. Each licensee is addressed as "you". "Licenses" and "recipients" may be individuals or organizations.

To "modify" a work means to copy from or adapt all or part of the work in a fashion requiring copyright permission, other than the making of an exact copy. The resulting work is called a "modified version" of the earlier work or a work "based on" the earlier work.

A "covered work" means either the unmodified Program or a work based on the Program.

To "propagate" a work means to do anything with it that, without permission, would make you directly or secondarily liable for infringement under applicable copyright law, except executing it on a computer or modifying a private copy. Propagation includes copying, distribution (of or without modification), making available to the public, and in some countries other activities as well.

To "convey" a work means any kind of propagation that enables other parties to make or receive copies. Mere interaction with a user through a computer network, with no transfer of a copy, is not conveying.

An interactive user interface displays "Appropriate Legal Notices" to the extent that it includes a convenient and prominently visible feature that (1) displays an appropriate copyright notice, and (2) tells the user that there is no warranty for the work (except to the extent that warranties are provided), that licensees may convey the work under this License, and how to view a copy of this License. If the interface presents a list of user commands or options, such as a menu or prominent item in the list menu, this criterion. 1. Source Code.

The "source code" for a work means the preferred form of the work for making modifications to it. "Object code" means any non-source form of a work.

A "Standard Interface" means an interface that either is an official standard defined by a recognized standards body, or, in the case of interfaces specified for a particular programming language, one that is widely used among developers working in that language.

The "System Libraries" of an executable work include anything, other than the work as a whole, that (a) is included in the normal form of packaging a Major Component, but which is not part of that Major Component, and (b) serves only to enable the use of the work with that Major Component, or to implement a Standard Interface for which an implementation is available to the public in source code form. A "Major Component", in this context, means a major essential component (kernel, window system, and so on) of the specific operating system (if any) on which the executable work runs, or a compiler used to produce the work, or an object code interpreter used to run it.

The "Corresponding Source" for a work in object code form means all the source code needed to generate, install, and (for an executable work) run the object code and to modify the work, including scripts to control those activities. However, it does not include the work's System Libraries, or general-purpose tools or generally available free programs which are used unmodified in performing those activities but which are not part of the work. For example, Corresponding Source includes interface definition files associated with source files for the work, and the source code for shared libraries and dynamically linked subprograms that the work is specifically designed to require, such as intimate data communication or control flow between those subprograms and other parts of the work.

The Corresponding Source need not include anything that users can regenerate automatically from other parts of the Corresponding Source.

The Corresponding Source for a work in source code form is that same work. 2. Basic Permissions.

All rights granted under this License are granted for the term of copyright on the Program, and are irrevocable provided the stated conditions are met. This License explicitly affirms your unlimited permission to run the unmodified Program. The output from running a covered work is covered by this License only if the output, given its content, constitutes a covered work. This License acknowledges your rights of fair use or other equivalent, as provided by copyright law.

You may make, run and propagate covered works that you do not conve, without conditions so long as your license otherwise remains in force. You may convey covered works to others for the sole purpose of having them make modifications exclusively for you, or provide you with facilities for running those works, provided that you comply with the terms of this License in conveying all material for which you do not control copyright. Those thus making or running the covered works for you must do so exclusively on your behalf, under your direction and control, on terms that prohibit them from making any copies of your copyrighted material outside their relationship with you.

Conveying under any other circumstances is permitted solely under the conditions stated below. Sublicensing is not allowed; section 10 makes it unnecessary. 3. Protecting Users' Legal Rights From Anti-Circumvention Law.

No covered work shall be deemed part of an effective technological measure under any applicable law fulfilling obligations under article 11 of the WIPO copyright treaty adopted on 20 December 1996, or similar laws prohibiting or restricting circumvention of such measures.

When you convey a covered work, you waive any legal power to forbid circumvention of technological measures to the extent such circumvention is effected by exercising rights under this License with respect to the covered work, and you disclaim any intent to limit operation or modification of the work as a means of enforcing, against the work's users, your or third parties' legal rights to forbid circumvention of technological measures. 4. Conveying Verbatim Copies.

You may convey verbatim copies of the Program's source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice; keep intact all notices stating that this License and any non-permissive terms added in accord with section 7 apply to the code; keep intact all notices of the absence of any warranty; and give all recipients a copy of this License along with the Program.

You may charge any price or no price for each copy that you convey, and you may offer support or warranty protection for a fee. 5. Conveying Modified Source Versions.

You may convey a work based on the Program, or the modifications to produce it from the Program, in the form of source code under the terms of section 4, provided that you also meet all of these conditions:

* a) The work must carry prominent notices stating that you modified it, and giving a relevant date. * b) The work must carry prominent notices stating that it is released under this License and any conditions added under section 7. This requirement modifies the requirement in section 4 to "keep intact all notices". * c) You must license the entire work, as a whole, under this License to anyone who comes into possession of a copy. This License will therefore apply, along with any applicable section 7 additional terms, to the whole of the work, and all its parts, regardless of how they were packaged. This License gives no permission to license the work in any other way, but it does not invalidate such permission if you have separately received it. * d) If the work has interactive user interfaces, each must display Appropriate Legal Notices; however, if the Program has interactive interfaces that do not display Appropriate Legal Notices, your work need not make them do so.

A compilation of a covered work with other separate and independent works, which are not by their nature extensions of the covered work, and which are not combined with it such as to form a larger program, or in or on a volume of a storage or distribution medium, is called an "aggregate" if the compilation and its resulting copyright are not used to limit the access or legal rights of the compilation's users beyond what the individual works permit. Inclusion of a covered work in an aggregate does not cause this License to apply to the other parts of the aggregate. 6. Conveying Non-Source Forms.

You may convey a covered work in object code form under the terms of sections 4 and 5, provided that you also convey the machine-readable Corresponding Source under the terms of this License, in one of these ways:

* a) Convey the object code in, or embodied in, a physical product (including a physical distribution medium), accompanied by the Corresponding Source fixed on a durable physical medium customarily used for software interchange. * b) Convey the object code in, or embodied in, a physical product (including a physical distribution medium), accompanied by a written offer, valid for at least three years and valid for as long as you offer spare parts or customer support for that product model, to give anyone who possesses the object code either (1) a copy of the Corresponding Source for all the software in the product that is covered by this License, on a durable physical medium customarily used for software interchange, for a price no more than your reasonable cost of physically performing this conveyance of source, or (2) access to copy the Corresponding Source from a network server at no charge. * c) Convey individual copies of the object code with a copy of the written offer to provide the Corresponding Source. This alternative is allowed only occasionally and noncommercially, and only if you received the object code with such an offer, in accord with subsection 6b. * d) Convey the object code by offering access from a designated place (gratis or for a charge), and offer equivalent access to the Corresponding Source in the same way through the same place at no further charge. You need not require recipients to copy the Corresponding Source along with the object code. If the object code is a network server, the Corresponding Source may be on a

different server (operated by you or a third party) that supports equivalent copying facilities, provided you maintain clear directions next to the object code saying where to find the Corresponding Source. Regardless of what server hosts the Corresponding Source, you remain obligated to ensure that it is available for as long as needed to satisfy these requirements. * e) Convey the object code using peer-to-peer transmission, provided you inform other peers where the object code and Corresponding Source of the work are being offered to the general public at no charge under subsection 6d.

A separable portion of the object code, whose source code is excluded from the Corresponding Source as a System Library, need not be included in conveying the object code work.

A "User Product" is either (1) a "consumer product", which means any tangible personal property which is normally used for personal, family, or household purposes, or (2) anything designed or sold for incorporation into a dwelling. In determining whether a product is a consumer product, doubtful cases shall be resolved in favor of coverage. For a particular product received by a particular user, "normally used" refers to a typical or common use of that class of product, regardless of the status of the particular user or of the way in which the particular user actually uses, or expects or is expected to use, the product. A product is a consumer product regardless of whether the product has substantial commercial, industrial or non-consumer uses, unless such uses represent the only significant mode of use of the product.

"Installation Information" for a Use Product means any methods, procedures, authorization keys, or other information required to install and execute modified versions of a covered work in that User Product from a modified version of its Corresponding Source. The information must suffice to ensure that the continued functioning of the modified code is in no case prevented or interfered with solely because modification has been made.

If you convey an object code work under this section in, or with, or specifically for use in, a User Product, and the conveying occurs as part of a transaction in which the right of possession and use of the User Product is transferred to the recipient in perpetuity or for a fixed term (regardless of how the transaction is characterized), the Corresponding Source conveyed under this section must be accompanied by the Installation Information. But this requirement does not apply if neither you nor any third party retains the ability to install modified object code on the User Product (for example, the work has been installed in ROM).

The requirement to provide Installation Information does not include a requirement to continue to provide support service, warranty, or updates for a work that has been modified or installed by the recipient, or for the User Product in which it has been modified or installed. Access to a network may be denied when the modification itself materially and adversely affects the operation of the network or violates the rules and protocols for communication across the network.

Corresponding Source conveyed, and Installation Information provided, in accord with this section must be in a format that is publicly documented (and with an implementation available to the public in source code form), and must require no special password or key for unpacking, reading or copying. 7. Additional Terms.

"Additional permissions" are terms that supplement the terms of this License by making exceptions from one or more of its conditions. Additional permissions that are applicable to the entire Program shall be treated as though they were included in this License, to the extent that they are valid under applicable law. If additional permissions apply only to part of the Program, that part may be used separately under those permissions, but the entire Program remains governed by this License without regard to the additional permissions.

When you convey a copy of a covered work, you may at your option remove any additional permissions from that copy, or from any part of it. (Additional permissions may be written to require their own removal in certain cases when you modify the work.) You may place additional permissions on material, added by you to a covered work, for which you have or can give appropriate copyright permission.

Notwithstanding any other provision of this License, for material you add to a covered work, you may (if authorized by the copyright holders of that material) supplement the terms of this License with terms:

* a) Disclaiming warranty or limiting liability differently from the terms of sections 15 and 16 of this License; or * b) Requiring preservation of specified reasonable legal notices or author attributions in that material or in the Appropriate Legal Notices displayed by works containing it; or * c) Prohibiting misrepresentation of the origin of that material, or requiring that modified versions of such material be marked in reasonable ways as different from the original version; or * d) Limiting the use for publicity purposes of names of licensors or authors of the material; or * e) Declining to grant rights under trademark law for use of some trade names, trademarks, or service marks; or * f) Requiring indemnification of licensors and authors of that material by anyone who conveys the material (or modified versions of it) with contractual assumptions of liability to the recipient, for any liability that these contractual assumptions directly impose on those licensors and authors.

All other non-permissive additional terms are considered "further restrictions" within the meaning of section 10. If the Program as you received it, or any part of it, contains a notice stating that it is governed by this License along with a term that is a further restriction, you may remove that term. If a license document contains a further restriction but permits relicensing or conveying under this License, then add to a covered work material governed by the terms of that license document, provided that the further restriction does not survive such relicensing or conveying.

If you add terms to a covered work in accord with this section, you must place, in the relevant source files, a statement of the additional terms that apply to those files, or a notice indicating where to find the applicable terms.

Additional terms, permissive or non-permissive, may be stated in the form of a separately written license, or stated as exceptions; the above requirements apply either way. 8. Termination.

You may not propagate or modify a covered work except as expressly provided under this License. Any attempt otherwise to propagate or modify it is void, and will automatically terminate your rights under this License (including any patent licenses granted under the third paragraph of section 11).

However, if you cease all violation of this License, then your license from a particular copyright holder is reinstated (a) provisionally, unless and until the copyright holder explicitly and finally terminates

your license, and (b) permanently, if the copyright holder fails to notify you of the violation by some reasonable means prior to 60 days after the cessation.

Moreover, your license from a particular copyright holder is reinstated permanently if the copyright holder notifies you of the violation by some reasonable means, this is the first time you have received notice of violation of this License (for any work) from that copyright holder, and you cure the violation prior to 30 days after your receipt of the notice.

Termination of your rights under this section does not terminate the rights of parties who have received copies or rights from you under this License. If your rights have been terminated and not permanently reinstated, you do not qualify to receive new licenses for the same material under section 10. 9. Acceptance Not Required for Having Copies.

You are not required to accept this License in order to receive or run a copy of the Program. Ancillary propagation of a covered work occurring solely as a consequence of using peer-to-peer transmission to receive a copy likewise does not require acceptance. However, nothing other than this License grants you permission to propagate or modify any covered work. These actions infringe copyright if you do not accept this License. Therefore, by modifying or propagating a covered work, you indicate your acceptance of this License to do so. 10. Automatic Licensing of Downstream Recipients.

Each time you convey a covered work, the recipient automatically receives a license from the original licensors, to run, modify and propagate that work, subject to this license. You are not responsible for enforcing compliance by third parties with this license.

An "entity transaction" is a transaction transferring control of an organization, or substantially all assets of one, or subdividing an organization, or merging organizations. If propagation of a covered work results from an entity transaction, each party to that transaction who receives a copy of the work also receives whatever licenses to the work the party's predecessor in interest had or could give under the previous paragraph, plus a right to possession of the Corresponding Source of the work from the predecessor in interest, if the predecessor has it or can get it with reasonable efforts.

You may not impose any further restrictions on the exercise of the rights granted or affirmed under this License. For example, you may not impose a license fee, royalty, or other charge for exercise of rights granted under this License, and you may not initiate litigation (including a cross-claim or counterclaim in a lawsuit) alleging that any patent claim is infringed by making, using, selling, offering for sale, or importing the Program or any portion of it. 11. Patents.

A "contributor" is a copyright holder who authorizes use under this License of the Program or a work on which the Program is based. The work thus licensed is called the contributor's "contributor version".

A contributor's "essential patent claims" are all patent claims owned or controlled by the contributor, whether already acquired or hereafter acquired, that would be infringed by some manner, permitted by this License, of making, using, or selling its contributor version. It do not include claims that would be infringed only as a consequence of further modification of the contributor version. For purposes of this definition, "control" includes the right to grant patent sublicenses in a manner consistent with the requirements of this License.

Each contributor grants you a non-exclusive, worldwide, royalty-free patent license under the contributor's essential patent claims, to make, use, sell, offer for sale, import and otherwise run, modify and propagate the contents of its contributor version.

In the following three paragraphs, a "patent license" is any express agreement or commitment, however denominated, not to enforce a patent (such as an express permission to practice a patent or covenant not to sue for patent infringement). To "grant" such a patent license to a party means to make such an agreement or commitment not to enforce a patent against the party.

If you convey a covered work, knowingly relying on a patent license, and the Corresponding Source of the work is not available for anyone to copy, free of charge and under the terms of this License, through a publicly available network server or other readily accessible means, then you must either (1) cause the Corresponding Source to be so available, or (2) arrange to deprive yourself of the benefit of the patent license for this particular work, or (3) arrange, in a manner consistent with the requirements of this License, to extend the patent license to downstream recipients. "Knowingly relying" means you have actual knowledge that, but for the patent license, your conveying the covered work in a country, or your recipient's use of the covered work in a country, would infringe one or more identifiable patents in that country that you have reason to believe are valid.

If, pursuant to or in connection with a single transaction or arrangement, you convey, or propagate by procuring conveyance of, a covered work, and grant a patent license to some of the recipients of the covered work authorizing them to use, propagate, modify or convey a specific copy of the covered work to you, then the patent license you grant is automatically extended to all recipients of the covered work and works based on it.

A patent license is "discriminatory" if it does not include within the scope of its coverage, prohibits the exercise of, or is conditioned on the non-exercise of one or more of the rights that are specifically granted under this License. You may not convey a covered work if you are a party to an arrangement with a third party that is in the business of distributing software, under which you make payment to the third party based on the extent of your activity of conveying the work, and under which the third party grants, to any of the parties who would receive the covered work from you, a discriminatory patent license (a) in connection with copies of the covered work conveyed by you (or copies made from those copies), or (b) primarily for and in connection with specific products or compilations that contain the covered work, unless you entered into that arrangement, or that patent license was granted, prior to 28 March 2007.

Nothing in this License shall be construed as excluding or limiting any implied license or other defenses to infringement that may otherwise be available to you under applicable patent law. 12. No Surrender of Others' Freedom.

If conditions are imposed on you (whether by court order, agreement or otherwise) that contradict the conditions of this License, if you cannot excuse yourself from the conditions of this License, then your license from a particular copyright holder is reinstated (a) provisionally, unless and until the copyright holder explicitly and finally terminates

both those terms and this License would be to refrain entirely from conveying the Program. 13. Use with the GNU Affero General Public License.

Notwithstanding any other provision of this License, you have permission to link or combine any covered work with a work licensed under version 3 of the GNU Affero General Public License into a single combined work, and to convey the resulting work. The terms of this License will continue to apply to the part which is the covered work, but the special requirements of the GNU Affero General Public License, section 13, concerning interaction through a network will apply to the combination as such. 14. Revised Versions of this License.

The Free Software Foundation may publish revised and/or new versions of the GNU General Public License from time to time. Such new versions will be similar in spirit to the present version, but may differ in detail to address new problems or concerns.

Each version is given a distinguishing version number. If the Program specifies that a certain numbered version of the GNU General Public License "or any later version" applies to it, you have the option of following the terms and conditions either of that numbered version or of any later version published by the Free Software Foundation. If the Program does not specify a version number of the GNU General Public License, you may choose any version ever published by the Free Software Foundation.

If the Program specifies that a proxy can decide which future versions of the GNU General Public License can be used, that proxy's public statement of acceptance of a version permanently authorizes you to choose that version for the Program.

3.2 GNU Free Documentation License

Version 1.3, 3 November 2008

Copyright © 2000, 2001, 2002, 2007, 2008 Free Software Foundation, Inc. <http://fsf.org/>

Everyone is permitted to copy and distribute verbatim copies of this license document, but changing it is not allowed. 0. PREAMBLE

The purpose of this License is to make a manual, textbook, or other functional and useful document "free" in the sense of freedom: to assure everyone the effective freedom to copy and redistribute it, with or without modifying it, either commercially or noncommercially. Secondly, this License preserves for the author and publisher a way to get credit for their work, while not being considered responsible for modifications made by others.

This License is a kind of "copyleft", which means that derivative works of the document must themselves be free in the same sense. It complements the GNU General Public License, which is a copyleft license designed for free software.

We have designed this License in order to use it for manuals for free software, because free software needs documentation: a free program should come with manuals providing the same freedoms that the software does. But this License is not limited to software manuals; it can be used for any textual work, regardless of subject matter or whether it is published as a printed book. We recommend this License principally for works whose purpose is instruction or reference.

1. APPLICABILITY AND DEFINITIONS

This License applies to any manual or other work, in any medium, that contains a notice placed by the copyright holder saying it can be distributed under the terms of this License. Such a notice grants a world-wide, royalty-free license, unlimited in duration, to use that work under the conditions stated herein. The "Document", below, refers to any such manual or work. Any member of the public is a licensee, and is addressed as "you". You accept the license if you copy, modify, or redistribute the work in a way requiring permission under copyright law.

A "Modified Version" of the Document means any work containing the Document or a portion of it, either copied verbatim, or with modifications and/or translated into another language.

A "Secondary Section" is a named appendix or a front-matter section of the Document that deals exclusively with the relationship of the publishers or authors of the Document to the Document's overall subject (or to related matters) and contains nothing that could fall directly within that overall subject. (Thus, if the Document is in part a textbook of mathematics, a Secondary Section may not explain any mathematics.) The relationship could be a matter of historical connection with the subject or with related matters, or of legal, commercial, philosophical, ethical or political position regarding them.

The "Invariant Sections" are certain Secondary Sections whose titles are designated, as being those of Invariant Sections, in the notice that says that the Document is released under this License. If a section does not fit the above definition of Secondary it is not allowed to be designated as Invariant. The Document may contain zero Invariant Sections. If the Document does not identify any Invariant Sections then there are none.

The "Cover Texts" are certain short passages of text that are listed, as Front-Cover Texts or Back-Cover Texts, in the notice that says that the Document is released under this License. A Front-Cover Text may be at most 5 words, and a Back-Cover Text may be at most 25 words.

A "Transparent" copy of the Document means a machine-readable copy, represented in a format whose specification is available to the general public, that is suitable for revising the document straightforwardly with generic text editors or (for drawings) some widely available drawing editor, and that is suitable for input to text formatters or for automatic translation to a variety of formats suitable for input to text formatters. A copy made in an otherwise transparent file format whose markup, or absence of markup, has been arranged to thwart or discourage subsequent modification by readers is not Transparent. An image format that is not Transparent if used for any substantial amount of text. A copy that is not "Transparent" is called "Opaque".

Examples of suitable formats for Transparent copies include plain ASCII without markup, Texinfo input format, L^AT_EX input format, SGML or XML using a publicly available DTD, and standard-conforming simple HTML, PostScript or PDF designed for human modification. Examples of transparent image formats include PNG, XCF and JPG. Opaque formats include proprietary formats that can be read and edited only by proprietary word processors, SGML or XML for which the DTD and/or processing tools are not generally available, and the machine-generated HTML, PostScript or PDF produced by some word processors for output purposes only.

The "Title Page" means, for a printed book, the title page itself, plus such following pages as are needed to hold, legibly, the material this License requires to appear in the title page. For works in formats which do not have any title page as such, "Title Page" means the text near the most prominent appearance of the work's title, preceding the beginning of the body of the text.

The "publisher" means any person or entity that distributes copies of the Document to the public.

A section "Entitled XYZ" means a named subunit of the Document whose title either is precisely XYZ or contains XYZ in parentheses

Later license versions may give you additional or different permissions. However, no additional obligations are imposed on any author or copyright holder as a result of your choosing to follow a later version. 15. Disclaimer of Warranty.

THERE IS NO WARRANTY FOR THE PROGRAM, TO THE EXTENT PERMITTED BY APPLICABLE LAW. EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES PROVIDE THE PROGRAM "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE PROGRAM IS WITH YOU. SHOULD THE PROGRAM PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL NECESSARY SERVICING, REPAIR OR CORRECTION. 16. Limitation of Liability.

IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MODIFIES AND/OR CONVEYS THE PROGRAM AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES, INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE PROGRAM (INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD PARTIES OR A FAILURE OF THE PROGRAM TO OPERATE WITH ANY OTHER PROGRAMS), EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES. 17. Interpretation of Sections 15 and 16.

If the disclaimer of warranty and limitation of liability provided above cannot be given legal effect according to their terms, reviewing courts shall apply local law that most closely approximates an absolute waiver of all civil liability in connection with the Program, unless a warranty or assumption of liability accompanies a copy of the Program in return for a fee.

END OF TERMS AND CONDITIONS How to Apply These Terms to Your New Programs

If you develop a new program, and you want it to be of the greatest possible use to the public, the best way to achieve this is to make it free software which everyone can redistribute and change under these terms.

To do so, attach the following notices to the program. It is safest to attach them to the start of each source file to most effectively state the exclusion of warranty; and each file should have at least the "copyright" line and a pointer to where the full notice is found.

<one line to give the program's name and a brief idea of what it does.>

Copyright (C) <year> <name of author>

This program is free software: you can redistribute it and/or modify it under the terms of the GNU General Public License as published by the Free Software Foundation, either version 3 of the License, or (at your option) any later version.

This program is distributed in the hope that it will be useful, but WITHOUT ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the GNU General Public License for more details.

You should have received a copy of the GNU General Public License along with this program. If not, see <http://www.gnu.org/licenses/>.

Also add information on how to contact you by electronic and paper mail.

If the program does terminal interaction, make it output a short notice like this when it starts in an interactive mode:

<program> Copyright (C) <year> <name of author> This program comes with ABSOLUTELY NO WARRANTY; for details type 'show w'. This is free software, and you are welcome to redistribute it under certain conditions; type 'show c' for details.

The hypothetical commands 'show w' and 'show c' should show the appropriate parts of the General Public License. Of course, your program's commands might be different; for a GUI interface, you would use an "about box".

You should also get your employer (if you work as a programmer) or school, if any, to sign a "copyright disclaimer" for the program, if necessary. For more information on this, and how to apply and follow the GNU GPL, see <http://www.gnu.org/licenses/>.

The GNU General Public License does not permit incorporating your program into proprietary programs. If your program is a subroutine library, you may consider it more useful to permit linking proprietary applications with the library. If this is what you want to do, use the GNU Lesser General Public License instead of this License. But first, please read <http://www.gnu.org/philosophy/why-not-lGPL.html>.

(section 1) will typically require changing the actual title. 9. TERMINATION

You may not copy, modify, sublicense, or distribute the Document except as expressly provided under this License. Any attempt otherwise to copy, modify, sublicense, or distribute it is void, and will automatically terminate your rights under this License.

However, if you cease all violation of this License, then your license from a particular copyright holder is reinstated (a) provisionally, unless and until the copyright holder explicitly and finally terminates your license, and (b) permanently, if the copyright holder fails to notify you of the violation by some reasonable means prior to 60 days after the cessation.

Moreover, your license from a particular copyright holder is reinstated permanently if the copyright holder notifies you of the violation by some reasonable means, this is the first time you have received notice of violation of this License (for any work) from that copyright holder, and you cure the violation prior to 30 days after your receipt of the notice.

Termination of your rights under this section does not terminate the licenses of parties who have received copies or rights from you under this License. If your rights have been terminated and not permanently reinstated, receipt of a copy of some or all of the same material does not give you any rights to use it. 10. FUTURE REVISIONS OF THIS LICENSE

The Free Software Foundation may publish new, revised versions of the GNU Free Documentation License from time to time. Such new versions will be similar in spirit to the present version, but may differ in detail to address new problems or concerns. See <http://www.gnu.org/copyleft/>.

Each version of the License is given a distinguishing version number. If the Document specifies that a particular numbered version of this License "or any later version" applies to it, you have the option of following the terms and conditions either of that specified version or of any later version that has been published (not as a draft) by the Free Software Foundation. If the Document does not specify a version number of this License, you may choose any version ever published (not as a draft) by the Free Software Foundation. If the Document specifies that a proxy can decide which future versions of this License can be used, that proxy's public statement of acceptance of a version permanently authorizes you to choose that version for the Document.

11. RELICENSING

"Massive Multiauthor Collaboration Site" (or "MMC Site") means any World Wide Web server that publishes copyrighted works and also provides prominent facilities for anybody to edit those works. A public wiki that anybody can edit is an example of such a server. A "Massive Multiauthor Collaboration" (or "MMC") contained in the site means any set of copyrighted works thus published on the MMC site.

"CC-BY-SA" means the Creative Commons Attribution-Share Alike 3.0 license published by Creative Commons Corporation, a not-for-profit corporation with a principal place of business in San Francisco, California, as well as future copyleft versions of that license published by that same organization.

"Incorporate" means to publish or republish a Document, in whole or in part, as part of another Document.

An MMC is "eligible for relicensing" if it is licensed under this License and if all works that were first published under this License somewhere other than that MMC, and subsequently incorporated in whole or in part into the MMC, (1) had no cover texts or invariant sections, and (2) were thus incorporated prior to November 1, 2008.

The operator of an MMC Site may republish an MMC contained in the site under CC-BY-SA on the same site at any time before August 1, 2009, provided the MMC is eligible for relicensing. ADDENDUM: How to use this License for your documents

To use this License in a document you have written, include a copy of the License in the document and put the following copyright and license notices just after the title page:

Copyright (C) YEAR YOUR NAME. Permission is granted to copy, distribute and/or modify this document under the terms of the GNU Free Documentation License, Version 1.3 or any later version published by the Free Software Foundation; with no Invariant Sections, no Front-Cover Texts, and no Back-Cover Texts. A copy of the license is included in the section entitled "GNU Free Documentation License".

If you have Invariant Sections, Front-Cover Texts and Back-Cover Texts, replace the "with... Texts." line with this:

with the Invariant Sections being LIST THEIR TITLES, with the Front-Cover Texts being LIST, and with the Back-Cover Texts being LIST.

If you have Invariant Sections without Cover Texts, or some other combination of the three, merge those two alternatives to suit the situation.

If your document contains nontrivial examples of program code, we recommend releasing these examples in parallel under your choice of free software license, such as the GNU General Public License, to permit their use in free software.

Translation is considered a kind of modification, so you may distribute translations of the Document under the terms of section 4. Replacing Invariant Sections with translations requires special permission from their copyright holders, but you may include translations of some or all Invariant Sections in addition to the original version of these Invariant Sections. You may include a translation of this License, and all the license notices in the Document, and any Warranty Disclaimers, provided that you also include the original English version of this License and the original versions of those notices and disclaimers. In case of a disagreement between the translation and the original version of this License or a notice or disclaimer, the original version will prevail.

If a section in the Document is Entitled "Acknowledgements", "Dedications", or "History", Preserve the Title of the section, and preserve in the section all the substance and tone of each of the contributor acknowledgements and/or dedications given therein. * L. Preserve all the Invariant Sections of the Document, unaltered in their text and

3.3 GNU Lesser General Public License

GNU LESSER GENERAL PUBLIC LICENSE

Version 3, 29 June 2007

Copyright © 2007 Free Software Foundation, Inc. <<http://fsf.org/>>

Everyone is permitted to copy and distribute verbatim copies of this license document, but changing it is not allowed.

This version of the GNU Lesser General Public License incorporates the terms and conditions of version 3 of the GNU General Public License, supplemented by the additional permissions listed below. 0. Additional Definitions:

As used herein, "this License" refers to version 3 of the GNU Lesser General Public License, and the "GNU GPL" refers to version 3 of the GNU General Public License.

"The Library" refers to a covered work governed by this License, either than an Application or a Combined Work as defined below.

An "Application" is any work that makes use of an interface provided by the Library, but which is not otherwise based on the Library. Defining a subclass of a class defined by the Library is deemed a mode of using an interface provided by the Library.

A "Combined Work" is a work produced by combining or linking an Application with the Library. The particular version of the Library with which the Combined Work was made is also called the "Linked Version".

The "Minimal Corresponding Source" for a Combined Work means the Corresponding Source for the Combined Work, excluding any source code for portions of the Combined Work that, considered in isolation, are based on the Application, and not on the Linked Version.

The "Corresponding Application Code" for a Combined Work means the object code and/or source code for the Application, including any data and utility programs needed for reproducing the Combined Work from the Application, but excluding the System Libraries of the Combined Work. 1. Exception to Section 3 of the GNU GPL.

You may convey a covered work under sections 3 and 4 of this License without being bound by section 3 of the GNU GPL. 2. Conveying Modified Versions.

If you modify a copy of the Library, and, in your modifications, a facility refers to a function or data to be supplied by an Application that uses the facility (other than as an argument passed when the facility is invoked), then you may convey a copy of the modified version:

* a) under this License, provided that you make a good faith effort to ensure that, in the event an Application does not supply the function or data, the facility still operates, and performs whatever part of its purpose remains meaningful; or * b) under the GNU GPL, with none of the additional permissions of this License applicable to that copy.

3. Object Code Incorporating Material from Library Header Files.

The object code form of an Application may incorporate material from a header file that is part of the Library. You may convey such object code under terms of your choice, provided that, if the incorporated material is not limited to numerical parameters, data structure layouts and accessors, or small macros, inline functions and templates (ten or fewer lines in length), you do both of the following:

* a) Give prominent notice with each copy of the object code that the Library is used in it and that the Library and its use are covered by this License. * b) Accompany the object code with a copy of the GNU GPL and this license document.

4. Combined Works.

You may convey a Combined Work under terms of your choice that, taken together, effectively do not restrict modification of the portions of the Library contained in the Combined Work and reverse engineering for debugging such modifications, if you also do each of the following:

* a) Give prominent notice with each copy of the Combined Work that the Library is used in it and that the Library and its use are covered by this License. * b) Accompany the Combined Work with a copy of the GNU GPL and this license document. * c) For a Combined Work that displays copyright notices during execution, include the copyright notice for the Library among these notices, as well as a reference directing the user to the copies of the GNU GPL and this license document. * d) Do one of the following: o 0) Convey the Minimal Corresponding Source under the terms of this License, and the Corresponding Application Code in a form suitable for, and under terms that permit, the user to recombine or relink the Application with a modified version of the Linked Version to produce a modified Combined Work, in the manner specified by section 6 of the GNU GPL for conveying Corresponding Source. o 1) Use a suitable shared library mechanism for linking with the Library. A suitable mechanism is one that (a) uses at run time a copy of the Library already present on the user's computer system, and (b) will operate properly with a modified version of the Library that is interface-compatible with the Linked Version. * e) Provide Installation Information, but only if you would otherwise be required to provide such information under section 6 of the GNU GPL, and only to the extent that such information is necessary to install and execute a modified version of the Combined Work produced by recombining or relinking the Application with a modified version of the Linked Version. (If you use option 4d, the Installation Information must accompany the Minimal Corresponding Source and Corresponding Application Code. If you use option 4d, you must provide the Installation Information in the manner specified by section 6 of the GNU GPL for conveying Corresponding Source.)

5. Combined Libraries.

You may place library facilities that are a work based on the Library side by side in a single library together with other library facilities that are not Applications and are not covered by this License, and convey such a combined library under terms of your choice, if you do both of the following:

* a) Accompany the combined library with a copy of the same work based on the Library, uncombined with any other library facilities, conveyed under the terms of this License. * b) Give prominent notice with the combined library that part of it is a work based on the Library, and explaining where to find the accompanying uncombined form of the same work.

6. Revised Versions of the GNU Lesser General Public License.

The Free Software Foundation may publish revised and/or new versions of the GNU Lesser General Public License from time to time. Such new versions will be similar in spirit to the present version, but may differ in detail to address new problems or concerns.

Each version is given a distinguishing version number. If the Library as you received it specifies that a certain numbered version of the GNU Lesser General Public License "or any later version" applies to it, you have the option of following the terms and conditions either of that published version or of any later version published by the Free Software Foundation. If the Library as you received it does not specify a version number of the GNU Lesser General Public License, you may choose any version of the GNU Lesser General Public License ever published by the Free Software Foundation.

If the Library as you received it specifies that a proxy can decide whether future versions of the GNU Lesser General Public License shall apply, that proxy's public statement of acceptance of any version is permanent authorization for you to choose that version for the Library.