

The **APG system** (**Angiosperm Phylogeny Group system**) of plant classification is the first version of a modern, mostly [molecular](#)-based, [system of plant taxonomy](#). Published in 1998 by the [Angiosperm Phylogeny Group](#), it was replaced by the improved [APG II](#) in 2003, [APG III system](#) in 2009 and [APG IV system](#) in 2016.

History

[\[edit\]](#)

The original APG system is unusual in being based, not on total evidence, but on the [cladistic](#) analysis of the DNA sequences of three genes, two chloroplast genes and one gene coding for ribosomes. Although based on [molecular evidence](#) only, its constituent groups prove to be supported by other evidence as well, for example [pollen morphology](#) supports the split between the [eudicots](#) and the rest of the former [dicotyledons](#).

The system is rather controversial in its decisions at the family level, splitting a number of long-established families and submerging some other families. It also is unusual in not using [botanical names](#) above the level of order, that is, an order is the highest [rank](#) that will have a formal [botanical name](#) in this system. Higher groups are defined only as [clades](#), with names such as [monocots](#), [eudicots](#), [rosids](#), [asterids](#).

The APG system was superseded in 2003 by a revision, the [APG II system](#), in 2009 by a next revision, the [APG III system](#), and then in 2016 by a further revision, the [APG IV system](#).

Groups

[\[edit\]](#)

The main groups in the system (all [unranked clades](#)) are:

- **angiosperms** :

[monocots](#)

[commelinoids](#)

[eudicots](#)

[core eudicots](#)

[rosids](#)

[eurosids I](#)

[eurosids II](#)

[asterids](#)

[euasterids I](#)

[euasterids II](#)

The APG system recognises 462 families and 40 orders: these are assigned as follows. In the beginning of each listing some families or orders that are not placed in a further clade:

- clade **angiosperms**

family [Amborellaceae](#)
family [Austrobaileyaceae](#)
family [Canellaceae](#)
family [Chloranthaceae](#)
family [Hydnoraceae](#)
family [Illiciaceae](#)
family [Nymphaeaceae](#) [+ family [Cabombaceae](#)]
family [Rafflesiaceae](#)
family [Schisandraceae](#)
family [Trimeniaceae](#)
family [Winteraceae](#)
order [Ceratophyllales](#)
family [Ceratophyllaceae](#)
order [Laurales](#)
family [Atherospermataceae](#)
family [Calycanthaceae](#)
family [Gomortegaceae](#)
family [Hernandiaceae](#)
family [Lauraceae](#)
family [Monimiaceae](#)
family [Siparunaceae](#)
order [Magnoliales](#)
family [Annonaceae](#)
family [Degeneriaceae](#)
family [Eupomatiaceae](#)
family [Himantandraceae](#)
family [Magnoliaceae](#)
family [Myristicaceae](#)
order [Piperales](#)
family [Aristolochiaceae](#)
family [Lactoridaceae](#)
family [Piperaceae](#)
family [Saururaceae](#)
clade **[monocots](#)**
family [Corsiaceae](#)
family [Japonoliriaceae](#)
family [Nartheciaceae](#)
family [Petrosaviaceae](#)
family [Triuridaceae](#)
order [Acorales](#)

family [Acoraceae](#)

order [Alismatales](#)

family [Alismataceae](#)

family [Aponogetonaceae](#)

family [Araceae](#)

family [Butomaceae](#)

family [Cymodoceaceae](#)

family [Hydrocharitaceae](#)

family [Juncaginaceae](#)

family [Limnocharitaceae](#)

family [Posidoniaceae](#)

family [Potamogetonaceae](#)

family [Ruppiaceae](#)

family [Scheuchzeriaceae](#)

family [Tofieldiaceae](#)

family [Zosteraceae](#)

order [Asparagales](#)

family [Agapanthaceae](#)

family [Agavaceae](#)

family [Alliaceae](#)

family [Amaryllidaceae](#)

family [Anemarrhenaceae](#)

family [Anthericaceae](#)

family [Aphyllanthaceae](#)

family [Asparagaceae](#)

family [Asphodelaceae](#)

family [Asteliaceae](#)

family [Behniaceae](#)

family [Blandfordiaceae](#)

family [Boryaceae](#)

family [Convallariaceae](#)

family [Doryanthaceae](#)

family [Hemerocallidaceae](#)

family [Herreriaceae](#)

family [Hesperocallidaceae](#)

family [Hyacinthaceae](#)

family [Hypoxidaceae](#)

family [Iridaceae](#)

family [Ixioliriaceae](#)

family [Lanariaceae](#)

family [Laxmanniaceae](#)

family [Orchidaceae](#)

family [Tecophilaeaceae](#)
family [Themidaceae](#)
family [Xanthorrhoeaceae](#)
family [Xeronemataceae](#)
order [Dioscoreales](#)

family [Burmanniaceae](#)
family [Dioscoreaceae](#)
family [Taccaceae](#)
family [Thismiaceae](#)
family [Trichopodaceae](#)
order [Liliales](#)

family [Alstroemeriaceae](#)
family [Campynemataceae](#)
family [Colchicaceae](#)
family [Liliaceae](#)
family [Luzuriagaceae](#)
family [Melanthiaceae](#)
family [Philesiaceae](#)
family [Ripogonaceae](#)
family [Smilacaceae](#)
order [Pandanales](#)

family [Cyclanthaceae](#)
family [Pandanaceae](#)
family [Stemonaceae](#)
family [Velloziaceae](#)
clade [commelinoids](#)

family [Abolbodaceae](#)
family [Bromeliaceae](#)
family [Dasypogonaceae](#)
family [Hanguanaceae](#)
family [Mayacaceae](#)
family [Rapateaceae](#)
order [Arecales](#)

family [Arecaceae](#)

order [Commelinales](#)

family [Commelinaceae](#)
family [Haemodoraceae](#)
family [Philydraceae](#)
family [Pontederiaceae](#)
order [Poales](#)

family [Anarthriaceae](#)
family [Centrolepidaceae](#)
family [Cyperaceae](#)
family [Ecdeiocoleaceae](#)
family [Eriocaulaceae](#)
family [Flagellariaceae](#)
family [Hydatellaceae](#)
family [Joinvilleaceae](#)
family [Juncaceae](#)
family [Poaceae](#)
family [Prioniaceae](#)
family [Restionaceae](#)
family [Sparganiaceae](#)
family [Thurniaceae](#)
family [Typhaceae](#)
family [Xyridaceae](#)
order [Zingiberales](#)

family [Cannaceae](#)
family [Costaceae](#)
family [Heliconiaceae](#)
family [Lowiaceae](#)
family [Marantaceae](#)
family [Musaceae](#)
family [Strelitziaceae](#)
family [Zingiberaceae](#)

clade **[eudicots](#)**

family [Buxaceae](#)
family [Didymelaceae](#)
family [Sabiaceae](#)
family [Trochodendraceae](#) [+ family [Tetracentraceae](#)]
order [Proteales](#)

family [Nelumbonaceae](#)
family [Platanaceae](#)
family [Proteaceae](#)
order [Ranunculales](#)

family [Berberidaceae](#)
family [Circaeasteraceae](#) [+ family [Kingdoniaceae](#)]
family [Eupteleaceae](#)
family [Lardizabalaceae](#)
family [Menispermaceae](#)
family [Papaveraceae](#) [+ family [Fumariaceae](#) and family [Pteridophyllaceae](#)]

family [Ranunculaceae](#)

clade [core eudicots](#)

family [Aextoxicaceae](#)

family [Berberidopsidaceae](#)

family [Dilleniaceae](#)

family [Gunneraceae](#)

family [Myrothamnaceae](#)

family [Vitaceae](#)

order [Caryophyllales](#)

family [Achatocarpaceae](#)

family [Aizoaceae](#)

family [Amaranthaceae](#)

family [Ancistrocladaceae](#)

family [Asteropeiaceae](#)

family [Basellaceae](#)

family [Cactaceae](#)

family [Caryophyllaceae](#)

family [Didiereaceae](#)

family [Dioncophyllaceae](#)

family [Droseraceae](#)

family [Drosophyllaceae](#)

family [Frankeniaceae](#)

family [Molluginaceae](#)

family [Nepenthaceae](#)

family [Nyctaginaceae](#)

family [Phytenaceae](#)

family [Phytolaccaceae](#)

family [Plumbaginaceae](#)

family [Polygonaceae](#)

family [Portulacaceae](#)

family [Rhabdodendraceae](#)

family [Sarcobataceae](#)

family [Simmondsiaceae](#)

family [Stegnospermataceae](#)

family [Tamaricaceae](#)

order [Santalales](#)

family [Olacaceae](#)

family [Opiliaceae](#)

family [Loranthaceae](#)

family [Misodendraceae](#)

family [Santalaceae](#)

order [Saxifragales](#)

family [Altingiaceae](#)
family [Cercidiphyllaceae](#)
family [Crassulaceae](#)
family [Daphniphyllaceae](#)
family [Grossulariaceae](#)
family [Haloragaceae](#)
family [Hamamelidaceae](#)
family [Iteaceae](#)
family [Paeoniaceae](#)
family [Penthoraceae](#)
family [Pterostemonaceae](#)
family [Saxifragaceae](#)
family [Tetracarpaeaceae](#)

clade [rosids](#)

family [Aphloiaceae](#)
family [Crossosomataceae](#)
family [Ixerbaceae](#)
family [Krameriaceae](#)
family [Picramniaceae](#)
family [Podostemaceae](#)
family [Stachyuraceae](#)
family [Staphyleaceae](#)
family [Tristichaceae](#)
family [Zygophyllaceae](#)

order [Geraniales](#)

family [Francoaceae](#)
family [Geraniaceae](#) [+ family [Hypseochaeritaceae](#)]
family [Greyiaceae](#)
family [Ledocarpaceae](#)
family [Melianthaceae](#)
family [Vivianiaceae](#)

clade [eurosids I](#)

family [Celastraceae](#)
family [Huaceae](#)
family [Parnassiaceae](#) [+ family [Lepuropetalaceae](#)]
family [Stackhousiaceae](#)

order [Cucurbitales](#)

family [Anisophylleaceae](#)
family [Begoniaceae](#)
family [Coriariaceae](#)
family [Corynocarpaceae](#)

family [Cucurbitaceae](#)

family [Datisceae](#)

family [Tetramelaceae](#)

order [Fabales](#)

family [Fabaceae](#)

family [Polygalaceae](#)

family [Quillajaceae](#)

family [Surianaceae](#)

order [Fagales](#)

family [Betulaceae](#)

family [Casuarinaceae](#)

family [Fagaceae](#)

family [Juglandaceae](#)

family [Myricaceae](#)

family [Nothofagaceae](#)

family [Rhoipteleaceae](#)

family [Ticodendraceae](#)

order [Malpighiales](#)

family [Achariaceae](#)

family [Balanopaceae](#)

family [Caryocaraceae](#)

family [Chrysobalanaceae](#)

family [Clusiaceae](#)

family [Dichapetalaceae](#)

family [Erythroxylaceae](#)

family [Euphorbiaceae](#)

family [Euphroniaceae](#)

family [Flacourtiaceae](#)

family [Goupiaceae](#)

family [Hugoniaceae](#)

family [Humiriaceae](#)

family [Irvingiaceae](#)

family [Ixonanthaceae](#)

family [Lacistemaceae](#)

family [Linaceae](#)

family [Malesherbiaceae](#)

family [Malpighiaceae](#)

family [Medusagynaceae](#)

family [Ochnaceae](#)

family [Pandaceae](#)

family [Passifloraceae](#)

family [Putranjivaceae](#)

family [Quinaceae](#)
family [Rhizophoraceae](#)
family [Salicaceae](#)
family [Scyphostegiaceae](#)
family [Trigoniaceae](#)
family [Turneraceae](#)
family [Violaceae](#)
order [Oxalidales](#)

family [Cephalotaceae](#)
family [Connaraceae](#)
family [Cunoniaceae](#)
family [Elaeocarpaceae](#)
family [Oxalidaceae](#)
family [Tremandraceae](#)
order [Rosales](#)

family [Barbeyaceae](#)
family [Cannabaceae](#)
family [Cecropiaceae](#)
family [Celtidaceae](#)
family [Dirachmaceae](#)
family [Elaeagnaceae](#)
family [Moraceae](#)
family [Rhamnaceae](#)
family [Rosaceae](#)
family [Ulmaceae](#)
family [Urticaceae](#)

clade **[eurosids II](#)**

family [Tapisciaceae](#)
order [Brassicales](#)

family [Akaniaceae](#) [+ family [Bretschneideraceae](#)]
family [Bataceae](#)
family [Brassicaceae](#)
family [Caricaceae](#)
family [Emblingiaceae](#)
family [Gyrostemonaceae](#)
family [Koeberliniaceae](#)
family [Limnanthaceae](#)
family [Moringaceae](#)
family [Pentadiplandraceae](#)
family [Resedaceae](#)
family [Salvadoraceae](#)

family [Setchellanthaceae](#)
family [Tovariaceae](#)
family [Tropaeolaceae](#)
order [Malvales](#)
family [Bixaceae](#) [+ family [Diegodendraceae](#)]
family [Cistaceae](#)
family [Cochlospermaceae](#)
family [Dipterocarpaceae](#)
family [Malvaceae](#)
family [Muntingiaceae](#)
family [Neuradaceae](#)
family [Sarcolaenaceae](#)
family [Sphaerosepalaceae](#)
family [Thymelaeaceae](#)
order [Myrtales](#)
family [Alzateaceae](#)
family [Combretaceae](#)
family [Crypteroniaceae](#)
family [Heteropyxidaceae](#)
family [Lythraceae](#)
family [Melastomataceae](#)
family [Memecylaceae](#)
family [Myrtaceae](#)
family [Oliniaceae](#)
family [Onagraceae](#)
family [Penaeeaceae](#)
family [Psiloxylaceae](#)
family [Rhynchocalycaceae](#)
family [Vochysiaceae](#)
order [Sapindales](#)
family [Anacardiaceae](#)
family [Biebersteiniaceae](#)
family [Burseraceae](#)
family [Kirkiaceae](#)
family [Meliaceae](#)
family [Nitrariaceae](#) [+ family [Peganaceae](#)]
family [Rutaceae](#)
family [Sapindaceae](#)
family [Simaroubaceae](#)
clade [asterids](#)
order [Cornales](#)

family [Cornaceae](#) [+ family [Nyssaceae](#)]

family [Grubbiaceae](#)

family [Hydrangeaceae](#)

family [Hydrostachyaceae](#)

family [Loasaceae](#)

order [Ericales](#)

family [Actinidiaceae](#)

family [Balsaminaceae](#)

family [Clethraceae](#)

family [Cyrillaceae](#)

family [Diapensiaceae](#)

family [Ebenaceae](#)

family [Ericaceae](#)

family [Fouquieriaceae](#)

family [Halesiaceae](#)

family [Lecythidaceae](#)

family [Marcgraviaceae](#)

family [Myrsinaceae](#)

family [Pellicieraceae](#)

family [Polemoniaceae](#)

family [Primulaceae](#)

family [Roridulaceae](#)

family [Sapotaceae](#)

family [Sarraceniaceae](#)

family [Styracaceae](#)

family [Symplocaceae](#)

family [Ternstroemiaceae](#)

family [Tetrameristaceae](#)

family [Theaceae](#)

family [Theophrastaceae](#)

clade **[euasterids I](#)**

family [Boraginaceae](#)

family [Plocospermataceae](#)

family [Vahliaceae](#)

order [Garryales](#)

family [Aucubaceae](#)

family [Eucommiaceae](#)

family [Garryaceae](#)

family [Oncothecaceae](#)

order [Gentianales](#)

family [Apocynaceae](#)

family [Gelsemiaceae](#)

family [Gentianaceae](#)

family [Loganiaceae](#)

family [Rubiaceae](#)

order [Lamiales](#)

family [Acanthaceae](#)

family [Avicenniaceae](#)

family [Bignoniaceae](#)

family [Buddlejaceae](#)

family [Byblidaceae](#)

family [Cyclocheilaceae](#)

family [Gesneriaceae](#)

family [Lamiaceae](#)

family [Lentibulariaceae](#)

family [Myoporaceae](#)

family [Oleaceae](#)

family [Orobanchaceae](#)

family [Paulowniaceae](#)

family [Pedaliaceae](#) [+ family [Martyniaceae](#)]

family [Phrymaceae](#)

family [Plantaginaceae](#)

family [Schlegeliaceae](#)

family [Scrophulariaceae](#)

family [Stilbaceae](#)

family [Tetrachondraceae](#)

family [Verbenaceae](#)

order [Solanales](#)

family [Convolvulaceae](#)

family [Hydroleaceae](#)

family [Montiniaceae](#)

family [Solanaceae](#)

family [Sphenocleaceae](#)

clade **[euasterids II](#)**

family [Adoxaceae](#)

family [Bruniaceae](#)

family [Carlemanniaceae](#)

family [Columelliaceae](#) [+ family [Desfontainiaceae](#)]

family [Eremosynaceae](#)

family [Escalloniaceae](#)

family [Icacinaceae](#)

family [Polyosmaceae](#)

family [Sphenostemonaceae](#)

family [Tribelaceae](#)

order [Apiales](#)

family [Apiaceae](#)

family [Araliaceae](#)

family [Aralidiaceae](#)

family [Griselinaceae](#)

family [Melanophyllaceae](#)

family [Pittosporaceae](#)

family [Torricelliaceae](#)

order [Aquifoliales](#)

family [Aquifoliaceae](#)

family [Helwingiaceae](#)

family [Phyllonomaceae](#)

order [Asterales](#)

family [Alseuosmiaceae](#)

family [Argophyllaceae](#)

family [Asteraceae](#)

family [Calyceraceae](#)

family [Campanulaceae](#) [+ family [Lobeliaceae](#)]

family [Carpodetaceae](#)

family [Donatiaceae](#)

family [Goodeniaceae](#)

family [Menyanthaceae](#)

family [Pentaphragmataceae](#)

family [Phellinaceae](#)

family [Rousseaceae](#)

family [Stylidiaceae](#)

order [Dipsacales](#)

family [Caprifoliaceae](#)

family [Diervillaceae](#)

family [Dipsacaceae](#)

family [Linnaeaceae](#)

family [Morinaceae](#)

family [Valerianaceae](#)

Note: "+ ..." = optional segregate family, that may be split off from the preceding family.

- Families of uncertain position

family [Balanophoraceae](#)

family [Bonnetiaceae](#)

family [Cardiopteridaceae](#)

family [Ctenolophonaceae](#)

family [Cynomoriaceae](#)
family [Cytinaceae](#)
family [Dipentodontaceae](#)
family [Elatinaceae](#)
family [Geissolomataceae](#)
family [Hoplestigmataceae](#)
family [Kaliphoraceae](#)
family [Lepidobotryaceae](#)
family [Lissocarpaceae](#)
family [Lophopyxidaceae](#)
family [Medusandraceae](#)
family [Metteniusaceae](#)
family [Mitrastemonaceae](#)
family [Paracryphiaceae](#)