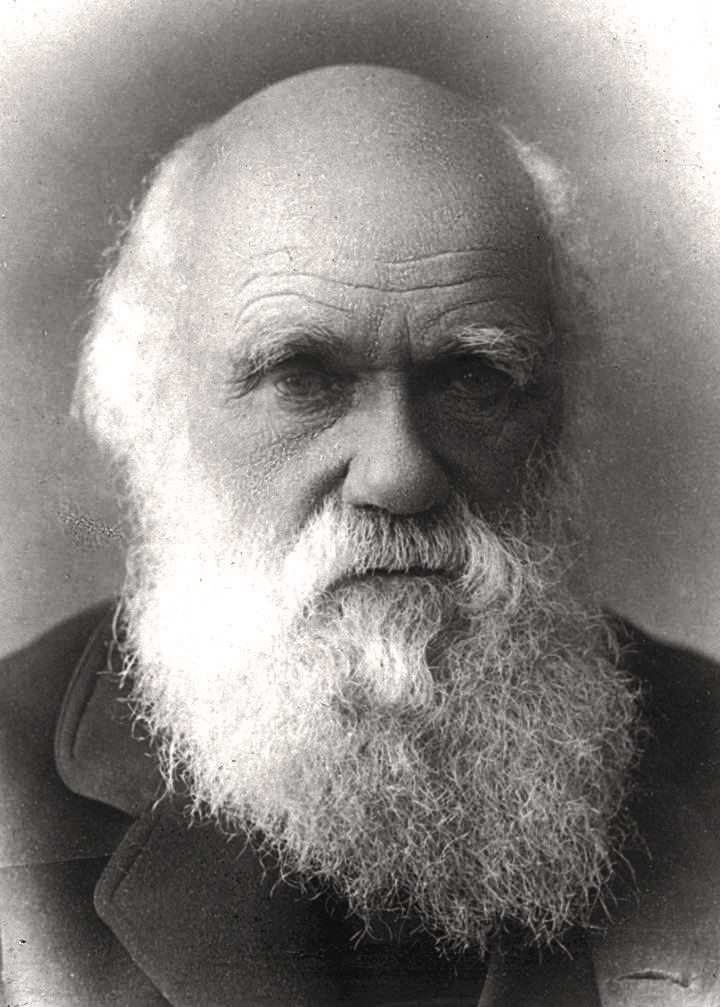
**Charles Darwin**

**(FØDT 12. februar 1809 DØD 19. april 1882)**



**Charles Darwin**

**Charles Darwin, en fremtredende britisk naturforsker, er anerkjent som pioneren innen moderne evolusjonsbiologi. I hans banebrytende verk, “Artenes opprinnelse”, presenterte Darwin en hypotese som har fått global anerkjennelse. Hypotesen foreslår at alle livsformer på jorden er beslektet og har utviklet seg gjennom millioner av år. Darwin foreslo også at mekanismen bak disse evolusjonære endringene var naturlig utvalg.**

**Darwins vitenskapelige bidrag er betraktet som noen av de mest betydningsfulle i historien. Hans konsept om evolusjon gjennom naturlig utvalg har hatt en enorm innflytelse, ikke bare innenfor de tradisjonelle naturvitenskapene, men også i fagfelt som filosofi og idéhistorie. Dette understreker hans betydning og innflytelse på tvers av disipliner.**

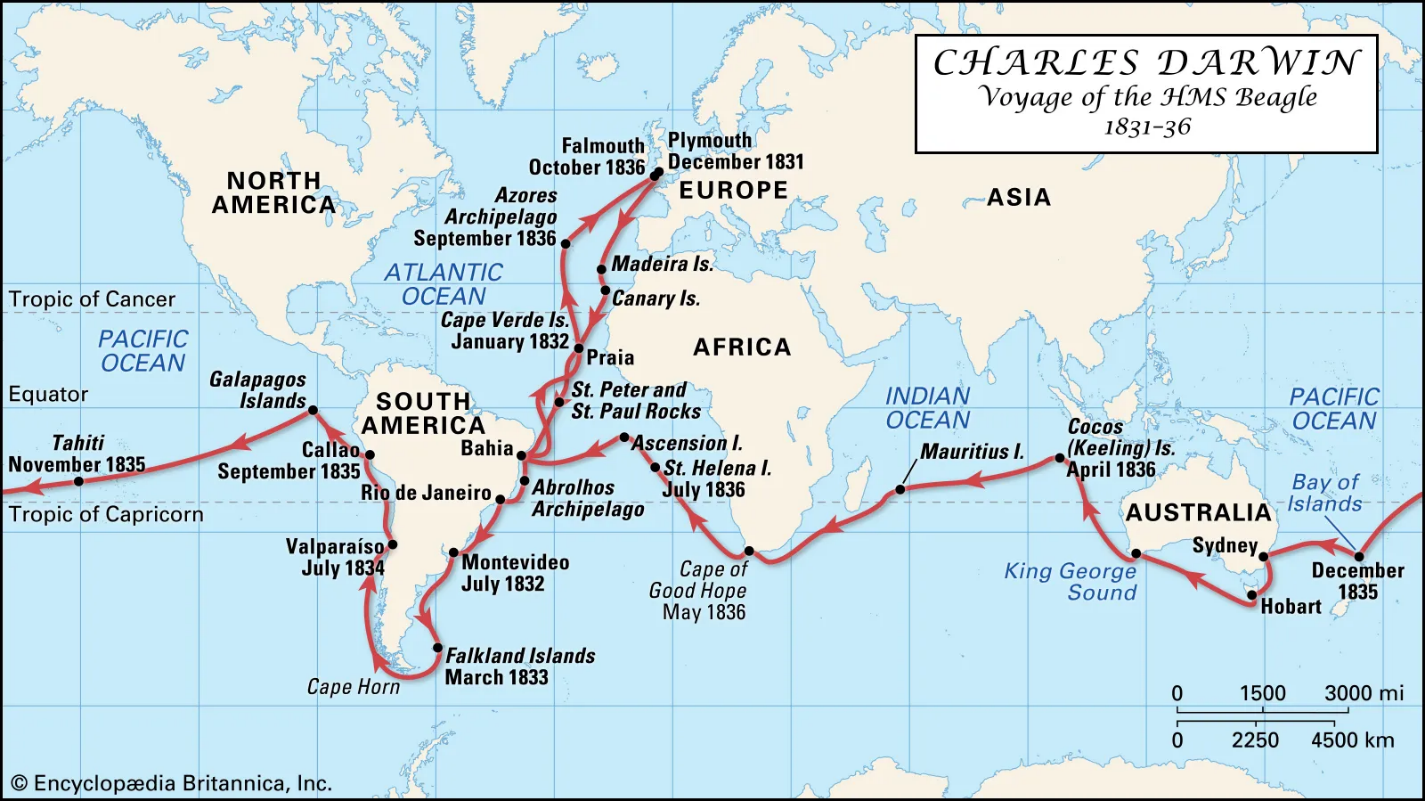
**Oppvekst og studietid**

**Charles Darwin, født i 1809 i Shrewsbury, England, kom fra en velstående familie. I en alder av bare 16 år ble han sendt til Universitetet i Edinburgh for å studere medisin. Imidlertid viste Darwin seg å være en uengasjert student, og han ble ofte svimmel og kvalm under disseksjonsøvelser og operasjoner som var en del av pensum. Dette førte til at han snart byttet fra medisinstudier til teologistudier ved Universitetet i Cambridge, hvor han fullførte en bachelorgrad i 1831.**

**Under sin tid i Edinburgh, og spesielt i Cambridge, utviklet Darwin en dyp interesse for naturvitenskap parallelt med sine studier i medisin og teologi. Han deltok aktivt i forelesninger, gikk på ekskursjoner og knyttet vennskap med flere anerkjente naturforskere. Disse erfaringene ga ham en omfattende kunnskap om geologi og biologi, som senere skulle bli grunnlaget for hans banebrytende arbeid innen evolusjonsbiologi.**

**Jordomseiling**

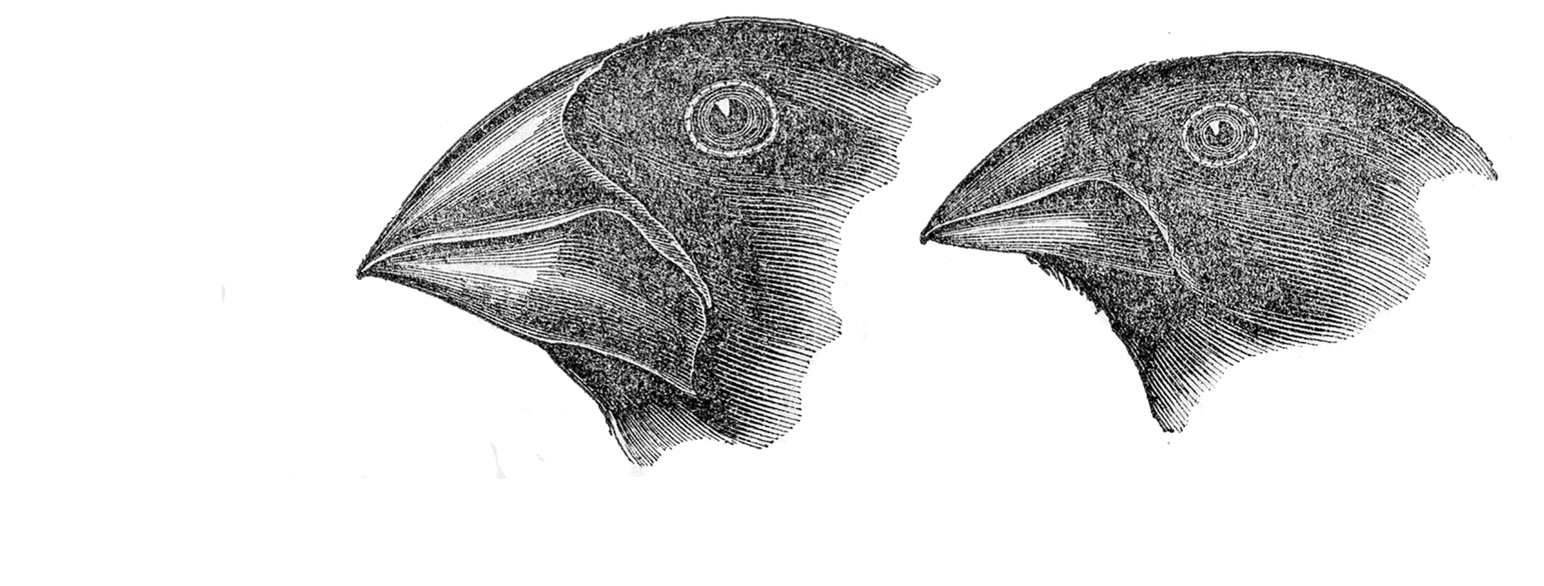
**En avgjørende hendelse som formet Charles Darwins liv og tenkning var hans jordomseiling ombord på det britiske marinefartøyet Beagle. Ekspedisjonens hovedmål var å utføre landmålinger langs Sør-Amerikas kyst. På anbefaling fra hans professorer ved Cambridge, ble Darwin invitert til å delta som ekspedisjonens eneste naturforsker. Denne bemerkelsesverdige reisen startet i 1831 og strakte seg over fem år.**

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**Charles Darwins ekspedisjon med HMS Beagle står som en av de mest betydningsfulle vitenskapelige reisene i historien. Kartet gir en detaljert tidslinje over de ulike stedene de besøkte.**

**Under jordomseilingen fikk Darwin en unik mulighet til å studere dyre- og planteliv samt geologiske forhold over hele verden. På Darwins tid var det en utbredt oppfatning at arter ikke hadde endret seg siden de ble skapt av en guddommelig makt. Men i løpet av den fem år lange ekspedisjonen ombord på Beagle, begynte Darwin å stille spørsmål ved dette statiske synet på naturen og jordens biologiske mangfold. Spesielt hans studier av fossile pattedyr fra Sør-Amerika og undersøkelser av fuglelivet på Galápagosøyene spilte en sentral rolle i utformingen av hans ideer om en natur i konstant endring og utviklingen av hans teori om evolusjon gjennom naturlig utvalg.**

**En annen betydelig kilde til inspirasjon for Darwin var Charles Lyells banebrytende bok “Principles of Geology”, som han leste under ekspedisjonen. Denne boken, som på den tiden var kontroversiell, argumenterte for at jordens geologi var i konstant endring, formet av ‘blinde’ prosesser uten noen høyere guddommelig hensikt eller mening. Dette bidro til å forme Darwins forståelse og perspektiv på naturens dynamikk.**

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[Illustrasjon av finker fra Darwins reise på Beagle](http://catalogue.wellcomelibrary.org/record=b1046896)**av Charles Darwin.**



**Charles Darwin i 1840, fire år etter at han kom hjem fra Beagle-ekspedisjonen.**

**Arbeidet med Artenes opprinnelse**

**Bare noen få år etter at han returnerte fra sin jordomseiling, indikerer Darwins dagbok at han hadde begynt å formulere ideen om at arter endrer seg gjennom naturlig utvalg. Likevel skulle det gå mer enn 20 år fra Darwin returnerte til England til han publiserte sin evolusjonsteori i boken “Artenes opprinnelse”.**

**En av grunnene til denne forsinkelsen var Darwins omfattende arbeidsmengde etter Beagle-ekspedisjonen. Darwin var en dyktig forfatter, og i 1839 publiserte han sin reisebeskrivelse fra den fem år lange jordomseilingen, kalt “The Voyage of the Beagle”.**

**Boken, som var full av spennende historier, nøyaktige naturskildringer og interessante naturvitenskapelige betraktninger, solgte godt og etablerte Darwin som en kjent skikkelse i Storbritannia.**

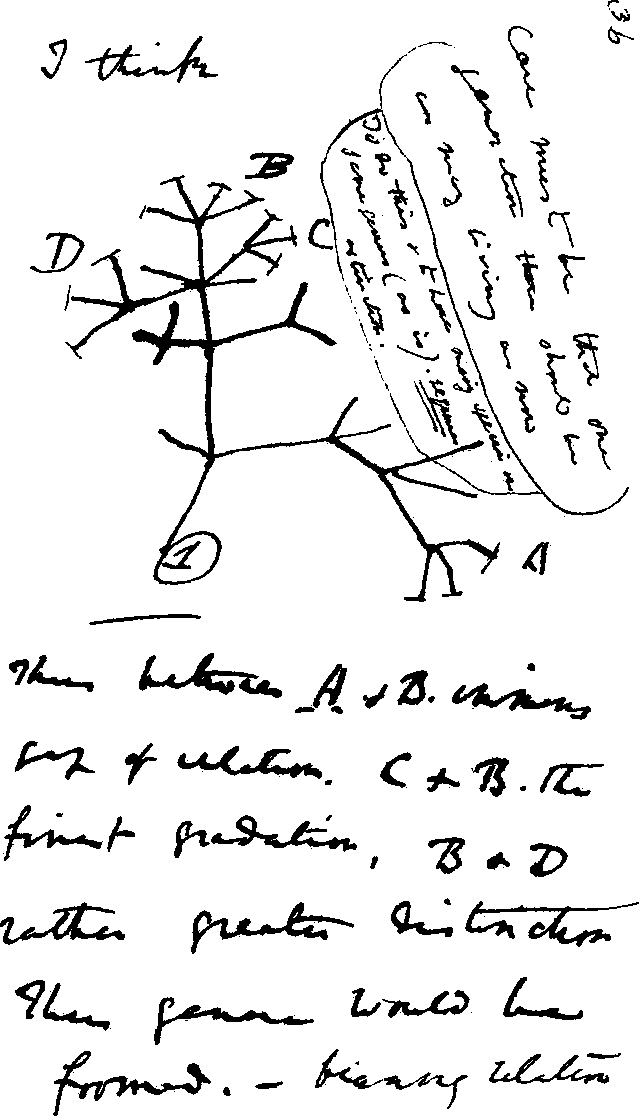
**Darwin viet også mye tid til å arbeide med samlingene av dyr, planter og fossiler han hadde med seg hjem. Etter “The Voyage of the Beagle” publiserte han et arbeid om strukturen og utbredelsen av korallrev i 1842, etterfulgt av et trebindsverk om rankeføttinger (Cirripedia, 1851–1854).**

**En annen grunn til at Darwin ikke raskt publiserte sin evolusjonsteori var hans bekymring for hvordan hans ideer ville bli mottatt av samfunnet. En teori der arter endrer seg og oppstår som en konsekvens av naturlig utvalg, plasserte ikke nødvendigvis mennesket i en særstilling i naturen. Darwin var spesielt klar over at kirken kunne reagere sterkt på hans idé om evolusjon. Han var derfor motvillig til å publisere sin teori før han kunne presentere solide argumenter og bevis som han håpet kunne overbevise både vitenskapsfolk og allmennheten.**

**I 1844 skrev Darwin et essay der han noterte ned de viktigste punktene i sin evolusjonsteori. Men til tross for oppmuntring fra hans venner, geologen Charles Lyell og botanikeren Joseph Dalton Hooker, var Darwin fortsatt ikke klar for å publisere. Først i 1856 begynte han seriøst å skrive sitt hovedverk, men arbeidet gikk sakte fremover.**

**Arbeidet med “Artenes opprinnelse” ble imidlertid fremskyndet på en uventet måte. I 1858 mottok Darwin et manuskript fra den unge zoologen og oppdagelsesreisende Alfred Russel Wallace, som han tidligere hadde møtt og korrespondert med. Manuskriptet inneholdt i stor grad de samme ideene om evolusjon som Darwin selv hadde utviklet. På anbefaling fra sine venner besluttet derfor Darwin å publisere et kort utdrag av sitt arbeid sammen med Wallaces’ manuskript. Først året etter, i 1859, offentliggjorde Darwin sitt hovedverk “On the Origin of Species by Means of Natural Selection” (norsk oversettelse “Artenes opprinnelse”).**

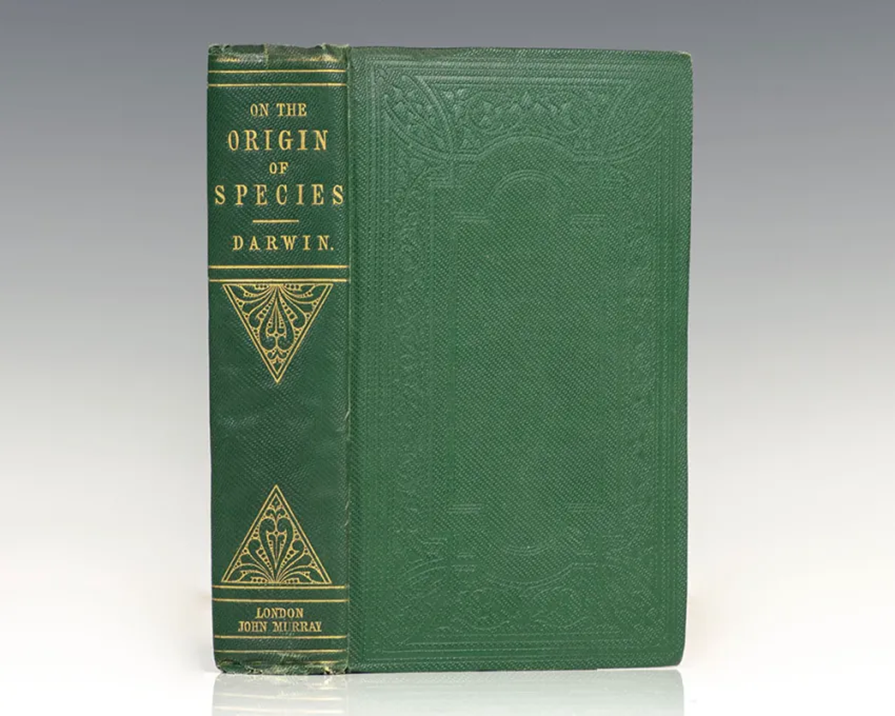
**Boken inneholdt en mengde observasjoner som viste at arter ikke var statiske, men hele tiden i utvikling. I tillegg inneholdt boken Darwins teori om at naturlig utvalg er mekanismen som forklarer hvordan denne utviklingen foregår.**



**Kort tid etter at Beagle-ekspedisjonen var fullført, begynte Darwin å utvikle ideer om hvordan arter oppstår og endrer seg over tid. I midten av juli 1837, skrev Darwin ned ordene “I think” i dagboken sin, ved siden av en skisse som illustrerte hans forestilling om slektskapet mellom arter. Dette markerer et betydningsfullt øyeblikk i hans vitenskapelige reise, der han begynte å utforske og formulere de grunnleggende prinsippene for det vi i dag kjenner som evolusjonsteorien.**

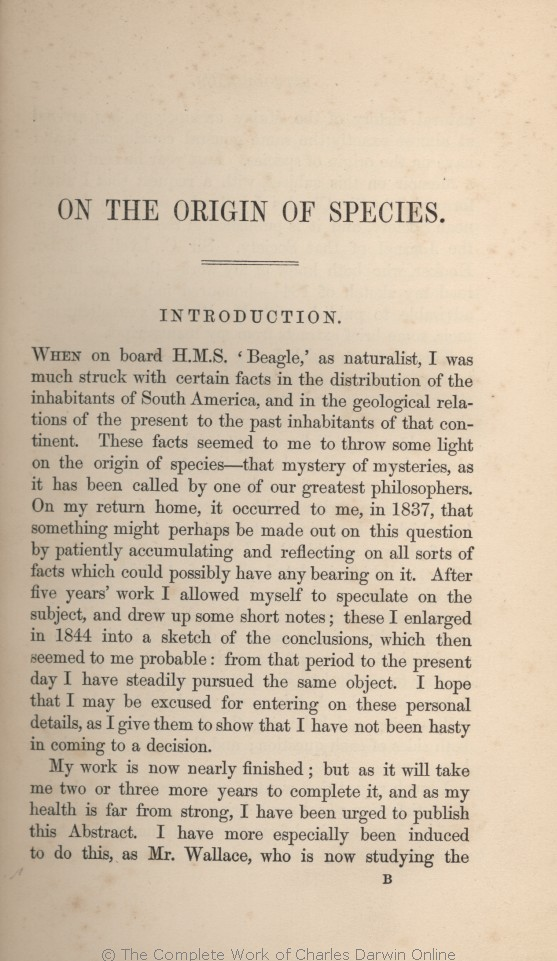
**Reaksjoner på Artenes opprinnelse**

**Darwins bok “Artenes opprinnelse” skapte en enorm oppstandelse da den først ble utgitt**, **24 November 1859, og det første opplaget på 1250 eksemplarer ble utsolgt umiddelbart. Boken ble kontinuerlig revidert og utgitt i nye versjoner, med totalt seks utgaver, den siste i 1872. Den ble raskt oversatt til de fleste europeiske språk, inkludert dansk i 1871 og norsk i 1889.**

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![Et bilde som inneholder tekst, brev, dokument, papir

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OmxpIHN0RXZ0OmFjdGlvbj0iZGVyaXZlZCIgc3RFdnQ6cGFyYW1ldGVycz0iY29udmVydGVkIGZyb20gaW1hZ2UveC1jYW5vbi1jcjIgdG8gaW1hZ2UvdGlmZiIvPg0KCQkJCQk8cmRmOmxpIHN0RXZ0OmFjdGlvbj0ic2F2ZWQiIHN0RXZ0Omluc3RhbmNlSUQ9InhtcC5paWQ6M2IyM2YzYjYtYTIyYi05MDRkLThlM2EtNzkyY2VlYjVhNzEzIiBzdEV2dDp3aGVuPSIyMDIwLTExLTI3VDE1OjA4OjM3LTA4OjAwIiBzdEV2dDpzb2Z0d2FyZUFnZW50PSJBZG9iZSBQaG90b3Nob3AgQ2FtZXJhIFJhdyAxMS40LjEgKFdpbmRvd3MpIiBzdEV2dDpjaGFuZ2VkPSIvIi8+DQoJCQkJCTxyZGY6bGkgc3RFdnQ6YWN0aW9uPSJzYXZlZCIgc3RFdnQ6aW5zdGFuY2VJRD0ieG1wLmlpZDpiOTVjNTJhNC1iMjNkLWNiNDQtOWVlNi02Nzg5MzA1NWM4YzQiIHN0RXZ0OndoZW49IjIwMjAtMTEtMjdUMTY6MTc6MjgtMDg6MDAiIHN0RXZ0OnNvZnR3YXJlQWdlbnQ9IkFkb2JlIFBob3Rvc2hvcCAyMS4yIChXaW5kb3dzKSIgc3RFdnQ6Y2hhbmdlZD0iLyIvPg0KCQkJCQk8cmRmOmxpIHN0RXZ0OmFjdGlvbj0iY29udmVydGVkIiBzdEV2dDpwYXJhbWV0ZXJzPSJmcm9tIGltYWdlL3RpZmYgdG8gaW1hZ2UvanBlZyIvPg0KCQkJCQk8cmRmOmxpIHN0RXZ0OmFjdGlvbj0iZGVyaXZlZCIgc3RFdnQ6cGFyYW1ldGVycz0iY29udmVydGVkIGZyb20gaW1hZ2UvdGlmZiB0byBpbWFnZS9qcGVnIi8+DQoJCQkJCTxyZGY6bGkgc3RFdnQ6YWN0aW9uPSJzYXZlZCIgc3RFdnQ6aW5zdGFuY2VJRD0ieG1wLmlpZDpmN2ZhN2Q5NC05NzBlLThmNDYtYWY2MC01MzBkYzFkODYyYmUiIHN0RXZ0OndoZW49IjIwMjAtMTEtMjdUMTY6MTc6MjgtMDg6MDAiIHN0RXZ0OnNvZnR3YXJlQWdlbnQ9IkFkb2JlIFBob3Rvc2hvcCAyMS4yIChXaW5kb3dzKSIgc3RFdnQ6Y2hhbmdlZD0iLyIvPg0KCQkJCQk8cmRmOmxpIHN0RXZ0OmFjdGlvbj0ic2F2ZWQiIHN0RXZ0Omluc3RhbmNlSUQ9InhtcC5paWQ6ODc1OTIxZTAtMzE5ZC04MzQ2LWEwYmQtOTZiNTBhZDczZWEwIiBzdEV2dDp3aGVuPSIyMDIxLTAzLTAyVDE3OjExOjExLTA4OjAwIiBzdEV2dDpzb2Z0d2FyZUFnZW50PSJBZG9iZSBQaG90b3Nob3AgQ2FtZXJhIFJhdyAxMy4xIChXaW5kb3dzKSIgc3RFdnQ6Y2hhbmdlZD0iL21ldGFkYXRhIi8+DQoJCQkJCTxyZGY6bGkgc3RFdnQ6YWN0aW9uPSJkZXJpdmVkIiBzdEV2dDpwYXJhbWV0ZXJzPSJjb252ZXJ0ZWQgZnJvbSBpbWFnZS9qcGVnIHRvIGltYWdlL3RpZmYiLz4NCgkJCQkJPHJkZjpsaSBzdEV2dDphY3Rpb249InNhdmVkIiBzdEV2dDppbnN0YW5jZUlEPSJ4bXAuaWlkOjFjODE2MTZmLWYwYjMtMmM0MS05Nzc0LTg4MzU1MWE1MWYzMCIgc3RFdnQ6d2hlbj0iMjAyMS0wMy0wMlQxNzoxMjoxMC0wODowMCIgc3RFdnQ6c29mdHdhcmVBZ2VudD0iQWRvYmUgUGhvdG9zaG9wIENhbWVyYSBSYXcgMTMuMSAoV2luZG93cykiIHN0RXZ0OmNoYW5nZWQ9Ii8iLz4NCgkJCQkJPHJkZjpsaSBzdEV2dDphY3Rpb249InNhdmVkIiBzdEV2dDppbnN0YW5jZUlEPSJ4bXAuaWlkOjkyZGE4Nzg4LWIzYzQtNmE0ZC1hMzkyLTRiMWI5NWI5YThiMCIgc3RFdnQ6d2hlbj0iMjAyMS0wMy0wMlQxNzoxMzoyOS0wODowMCIgc3RFdnQ6c29mdHdhcmVBZ2VudD0iQWRvYmUgUGhvdG9zaG9wIDIyLjIgKFdpbmRvd3MpIiBzdEV2dDpjaGFuZ2VkPSIvIi8+DQoJCQkJCTxyZGY6bGkgc3RFdnQ6YWN0aW9uPSJjb252ZXJ0ZWQiIHN0RXZ0OnBhcmFtZXRlcnM9ImZyb20gaW1hZ2UvdGlmZiB0byBpbWFnZS9qcGVnIi8+DQoJCQkJCTxyZGY6bGkgc3RFdnQ6YWN0aW9uPSJkZXJpdmVkIiBzdEV2dDpwYXJhbWV0ZXJzPSJjb252ZXJ0ZWQgZnJvbSBpbWFnZS90aWZmIHRvIGltYWdlL2pwZWciLz4NCgkJCQkJPHJkZjpsaSBzdEV2dDphY3Rpb249InNhdmVkIiBzdEV2dDppbnN0YW5jZUlEPSJ4bXAuaWlkOjhlMjczMWQzLWNiZjgtNjY0OC04YWJkLThkZTI3ZmZiYzAxMiIgc3RFdnQ6d2hlbj0iMjAyMS0wMy0wMlQxNzoxMzoyOS0wODowMCIgc3RFdnQ6c29mdHdhcmVBZ2VudD0iQWRvYmUgUGhvdG9zaG9wIDIyLjIgKFdpbmRvd3MpIiBzdEV2dDpjaGFuZ2VkPSIvIi8+DQoJCQkJPC9yZGY6U2VxPg0KCQkJPC94bXBNTTpIaXN0b3J5Pg0KCQkJPHhtcE1NOkRlcml2ZWRGcm9tIHN0UmVmOmluc3RhbmNlSUQ9InhtcC5paWQ6OTJkYTg3ODgtYjNjNC02YTRkLWEzOTItNGIxYjk1YjlhOGIwIiBzdFJlZjpkb2N1bWVudElEPSJ4bXAuZGlkOjFjODE2MTZmLWYwYjMtMmM0MS05Nzc0LTg4MzU1MWE1MWYzMCIgc3RSZWY6b3JpZ2luYWxEb2N1bWVudElEPSIwMDYzMjgwMUE2NjdBRjAzRDg2MDgyOTY5OEYyODczNiIvPg0KCQkJPGNyczpUb25lQ3VydmVQVjIwMTI+DQoJCQkJPHJkZjpTZXE+DQoJCQkJCTxyZGY6bGk+MCwgMDwvcmRmOmxpPg0KCQkJCQk8cmRmOmxpPjI1NSwgMjU1PC9yZGY6bGk+DQoJCQkJPC9yZGY6U2VxPg0KCQkJPC9jcnM6VG9uZUN1cnZlUFYyMDEyPg0KCQkJPGNyczpUb25lQ3VydmVQVjIwMTJSZWQ+DQoJCQkJPHJkZjpTZXE+DQoJCQkJCTxyZGY6bGk+MCwgMDwvcmRmOmxpPg0KCQkJCQk8cmRmOmxpPjI1NSwgMjU1PC9yZGY6bGk+DQoJCQkJPC9yZGY6U2VxPg0KCQkJPC9jcnM6VG9uZUN1cnZlUFYyMDEyUmVkPg0KCQkJPGNyczpUb25lQ3VydmVQVjIwMTJHcmVlbj4NCgkJCQk8cmRmOlNlcT4NCgkJCQkJPHJkZjpsaT4wLCAwPC9yZGY6bGk+DQoJCQkJCTxyZGY6bGk+MjU1LCAyNTU8L3JkZjpsaT4NCgkJCQk8L3JkZjpTZXE+DQoJCQk8L2NyczpUb25lQ3VydmVQVjIwMTJHcmVlbj4NCgkJCTxjcnM6VG9uZUN1cnZlUFYyMDEyQmx1ZT4NCgkJCQk8cmRmOlNlcT4NCgkJCQkJPHJkZjpsaT4wLCAwPC9yZGY6bGk+DQoJCQkJCTxyZGY6bGk+MjU1LCAyNTU8L3JkZjpsaT4NCgkJCQk8L3JkZjpTZXE+DQoJCQk8L2NyczpUb25lQ3VydmVQVjIwMTJCbHVlPg0KCQk8L3JkZjpEZXNjcmlwdGlvbj4NCgk8L3JkZjpSREY+DQo8L3g6eG1wbWV0YT4NCiAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAKICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgIAogICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgCiAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAKICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgIAogICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgCiAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAKICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAg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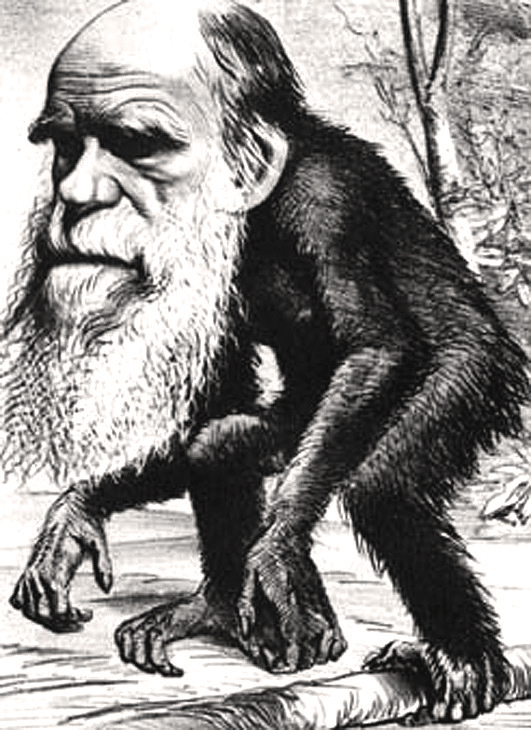
**Darwins forutsigelser om at hans bok ville vekke oppsikt, både blant vitenskapsfolk og innen kirken, viste seg å være korrekte. Hans idé om at alle livsformer på jorden er beslektet ble relativt raskt akseptert i det vitenskapelige samfunnet. Imidlertid ble hans teori om at naturlig utvalg driver evolusjonen mottatt med mer skepsis.**

**Til tross for sin svekkede helse, som begrenset hans deltagelse i debatten om sin egen teori, var det flere vitenskapsfolk som støttet Darwins ideer og arbeidet for at hans evolusjonsteori skulle få bred aksept. I England var Thomas Huxley en slik sterk støttespiller, og hans utrettelige forsvar for Darwins ideer førte til at han fikk kallenavnet “Darwin’s Bulldog”.**

**I dag er hovedprinsippene i Darwins “Artenes opprinnelse” allment akseptert innen vitenskapen. Evolusjon gjennom naturlig utvalg er for eksempel anerkjent som den primære mekanismen som fører til utvikling av tilpasninger.**



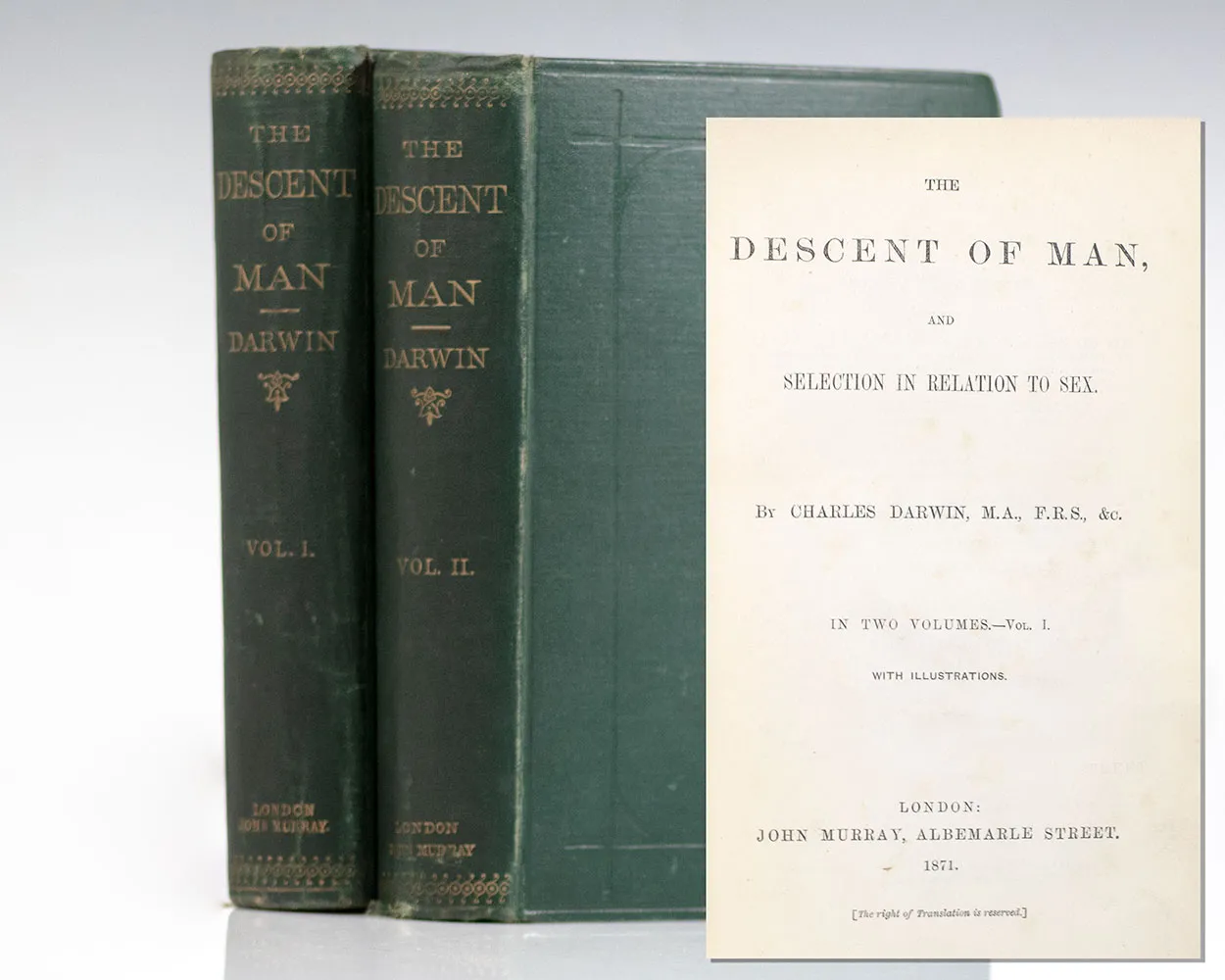
**Fotografi av Charles Darwin tatt ca. 1854.**



**Charles Darwin møtte betydelig latterliggjøring og kritikk fra mange av sine samtidige for hans teorier om artenes opprinnelse. Spesielt skapte ideen om at mennesker og aper kunne være beslektet stor oppstandelse. Dette er illustrert i en karikatur fra bladet Hornet i 1871, hvor Darwin er avbildet som en skjegget ape.**

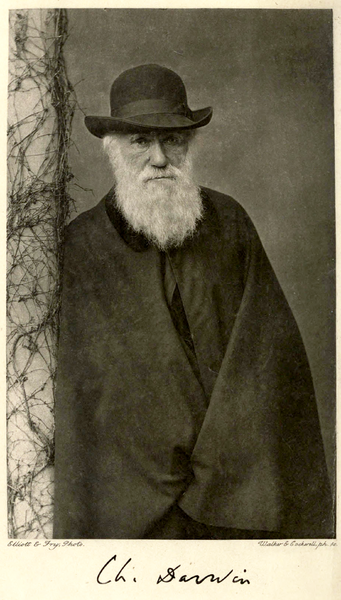
**Etter Artenes opprinnelse**

**Etter publiseringen av “Artenes opprinnelse”, fortsatte Darwin å utdype og supplere sin teori om evolusjon gjennom naturlig utvalg i en rekke påfølgende publikasjoner. Han utga blant annet en utvidet versjon av kapitlene om menneskets avl av planter og dyr, som opprinnelig skulle vært en del av det større verket han hadde begynt på da han mottok brevet fra Wallace; “The Variation of Animals and Plants under Domestication” (1868). Han viet også to bøker til det kontroversielle emnet om menneskets opprinnelse, som han bare antydet i “Artenes opprinnelse”: “The Descent of Man, and Selection in Relation to Sex” (1871) og “The Expression of Emotions in Man and Animals” (1872).**

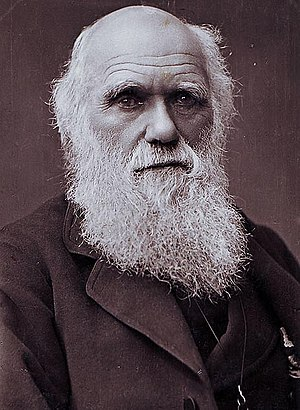
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**Darwins mest omfattende og varige arbeid ble imidlertid utført innen studiet av planters reproduksjon. Tre av hans verker som omhandler ulike aspekter ved planters reproduksjon blir fortsatt sitert i vitenskapelige artikler mer enn 150 år senere. I det første av disse, “On the various contrivances by which British and foreign orchids are fertilised by insects” (1862, ny utvidet utgave i 1871), beskriver Darwin en rekke orkidéers tilpasninger til insektpollinering som eksempler på resultater av naturlig seleksjon, basert på nitidige observasjoner. Etter langvarige eksperimenter med kontrollert pollinering og dyrking over mange generasjoner, publiserte han i 1876 sin bok om de skadelige effektene av innavl: “The effects of cross and self fertilisation in the vegetable kingdom”. Han fulgte opp dette temaet med å undersøke ulike tilpasninger for å unngå selvbefruktning, slik som heterostyli og kjønnsfordeling mellom blomster og individer: “The different forms of flowers on plants of the same species” (1877). Alle disse arbeidene var ledd i Darwins livslange prosjekt med å underbygge sin store teori.**

**Darwin døde den 19. april 1882 og ble gravlagt i Westminster Abbey.**



**Darwin i 1881, året før han døde.**

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**Fotografi av Herbert Rose Barraud, antatt av Darwin-fotografiekspert Gene Kritsky å være det siste fotografiet tatt av Darwin før hans død i 1882. Det originale fotografiet er bevart ved Huntington Library, San Marino, California.**

**Kilder:**

* https://snl.no/Charles\_Darwin
* <https://no.wikipedia.org/wiki/Darwinisme>
* <https://ndla.no/subject:1:f18b0daa-6507-4025-8998-b8a11c8ccc70/topic:1:efd20b4a-3160-468c-ad68-92f92970faf4/topic:1:35134346-5eae-4115-85fc-558493942f2f/resource:ad89cea0-c518-4368-a45b-dcdf46cdb0e7>
* <https://no.wikipedia.org/wiki/Charles_Darwin>
* <http://darwin-online.org.uk/EditorialIntroductions/Archibald_DarwinsLibrary.html>
* <https://www.darwinproject.ac.uk/>