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[Navigation](#)

- \* [\[Main page\]](/wiki/Main_Page)(/wiki/Main\_Page "Visit the main page [z]")
- \* [\[Contents\]](/wiki/Wikipedia:Contents)(/wiki/Wikipedia:Contents "Guides to browsing Wikipedia")
- \* [\[Current events\]](/wiki/Portal:Current_events)(/wiki/Portal:Current\_events "Articles related to current events")
- \* [\[Random article\]](/wiki/Special:Random)(/wiki/Special:Random "Visit a randomly selected article [x]")
- \* [\[About Wikipedia\]](/wiki/Wikipedia:About)(/wiki/Wikipedia:About "Learn about Wikipedia and how it works")
- \* [\[Contact us\]](https://en.wikipedia.org/wiki/Wikipedia:Contact_us)(//en.wikipedia.org/wiki/Wikipedia:Contact\_us "How to contact Wikipedia")

[Contribute](#)

- \* [\[Help\]](/wiki/Help:Contents)(/wiki/Help:Contents "Guidance on how to use and edit Wikipedia")
- \* [\[Learn to edit\]](/wiki/Help:Introduction)(/wiki/Help:Introduction "Learn how to edit Wikipedia")
- \* [\[Community portal\]](/wiki/Wikipedia:Community_portal)(/wiki/Wikipedia:Community\_portal "The hub for editors")
- \* [\[Recent changes\]](/wiki/Special:RecentChanges)(/wiki/Special:RecentChanges "A list of recent changes to Wikipedia [r]")
  - \* [\[Upload file\]](/wiki/Wikipedia:File_upload_wizard)(/wiki/Wikipedia:File\_upload\_wizard "Add images or other media for use on Wikipedia")

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Free Encyclopedia](/static/images/mobile/copyright/wikipedia-tagline-en.svg)

](/wiki/Main\_Page)

[ Search ](/wiki/Special:Search "Search Wikipedia \[f\]")

Search

Appearance

\*

[Donate](https://donate.wikimedia.org/?wmf\_source=donate&wmf\_medium=sidebar&wmf\_campaign=en.wikipedia.org&uselang=en)

\*

[Create

account](/w/index.php?title=Special:CreateAccount&returnto=Special%3ADownloadAsPdf&returntoquery=action%3Dshow-download-screen%26page%3DTop-p\_sampling "You are encouraged to create an account and log in; however, it is not mandatory")

\*

[Log

in](/w/index.php?title=Special:UserLogin&returnto=Special%3ADownloadAsPdf&returntoquery=action%3Dshow-download-screen%26page%3DTop-p\_sampling "You're encouraged to log in; however, it's not mandatory. \[o\]")

Personal tools

\*

[Donate](https://donate.wikimedia.org/?wmf\_source=donate&wmf\_medium=sidebar&wmf\_campaign=en.wikipedia.org&uselang=en)

\* [Create account](/w/index.php?title=Special:CreateAccount&returnto=Special%3ADownloadAsPdf&returntoquery=action%3Dshow-download-screen%26page%3DTop-p\_sampling "You are encouraged to create an account and log in; however, it is not mandatory")

\* [Log in](/w/index.php?title=Special:UserLogin&returnto=Special%3ADownloadAsPdf&returntoquery=action%3Dshow-download-screen%26page%3DTop-p\_sampling "You're encouraged to log in; however, it's not mandatory. \[o\]")

Pages for logged out editors [learn more](/wiki/Help:Introduction)

- \* [Contributions](/wiki/Special:MyContributions "A list of edits made from this IP address \[y\]")
- \* [Talk](/wiki/Special:MyTalk "Discussion about edits from this IP address \[n\]")

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Tools

Tools

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Actions

General

- \* [Upload file](//en.wikipedia.org/wiki/Wikipedia:File\_Upload\_Wizard "Upload files \[u\]")
- \* [Special pages](/wiki/Special:SpecialPages "A list of all special pages \[q\]")
- \* [Printable version](javascript:print\(\); "Printable version of this page \[p\]")

\* [Get shortened URL](/w/index.php?title=Special:UrlShortener&url=https%3A%2F%2Fen.wikipedia.org%2Fw%2Findex.php%3Ftitle%3DSpecial%3ADownloadAsPdf%26action%3Dshow-download-screen%26page%3DTop-p\_sampling)

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In other projects

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Top-p sampling

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