

Home

Welcome to SpamAssassin

SpamAssassin is a mature, widely-deployed open source project that serves as a mail filter to identify Spam. SpamAssassin uses a variety of mechanisms including header and text analysis, Bayesian filtering, DNS blocklists, and collaborative filtering databases. SpamAssassin runs on a server, and filters spam before it reaches your mailbox. Read more about [SpamAssassin](#).

Spamassassin Help

- How to [Start Using](#) SpamAssassin: a quick guide
- [Frequently Asked Questions](#)
- [Using Spamassassin](#) already? Tips and Tricks and other Documentation
- [Integrating Spamassassin](#) with your Mail Transfer Agent (MTA)
- [Mailing Lists](#) and other methods of contacting us
- [Testimonials](#) - We all love [SpamAssassin](#)
- [Third-Party Software](#) for [SpamAssassin](#) (plugins, rulesets)
- [Other Tricks](#) for getting rid of spam

Get Involved

Want to be part of the process and contribute to the development of [SpamAssassin](#) software or [SpamAssassin](#) documentation? You to can become part of the team. Here's how:

- [We love Volunteers](#) - You can help improve SpamAssassin
- [Development Information](#) for developers and those interested in the development process

Starting Points: [FAQs](#), [List of labels](#) used for pages in this online manual, and [Information about installing](#).

Editing This Wiki

Help edit our [Wiki](#) - You can edit these pages! Send a brief request to the [dev@ list](#) to be given edit access to the wiki including your wiki username. No mailing list subscription required.

List of all pages

Space Index

Total number of pages: 577

info Page excerpts are hidden because there are more than 200 pages

0-9 ... 1	A ... 45	B ... 46	C ... 44	D ... 32	E ... 6
F ... 19	G ... 3	H ... 17	I ... 33	J ... 6	K ... 4
L ... 11	M ... 42	N ... 10	O ... 11	P ... 28	Q ... 1
R ... 62	S ... 75	T ... 25	U ... 27	V ... 5	W ... 17
X ... 1	Y ... 0	Z ... 0	!@#\$... 0		

0-9

Page: [320ReleaseSummary](#)

A

Page: [AboutClas](#)
Page: [AboutSpamAssassin](#)
Page: [AdjustRuleScore](#)
Page: [AlistairMcDonald](#)
Page: [ALL TRUSTED](#)
Page: [AllSpamToFiltering](#)
Page: [AllSpamToNoFiltering](#)
Page: [AlwaysSpamWithTswitch](#)
Page: [AmavisdNewTrouble](#)
Page: [AntiPhishFakeUrlRule](#)
Page: [Apache SpamAssassin Report to Board for June 2019](#)
Page: [Apache SpamAssassin report to Board for December 2019](#)
Page: [Apache SpamAssassin report to Board for December 2020](#)
Page: [Apache SpamAssassin report to Board for December 2021](#)
Page: [Apache SpamAssassin report to Board for December 2022](#)
Page: [Apache SpamAssassin report to Board for June 2020](#)
Page: [Apache SpamAssassin report to Board for June 2021](#)
Page: [Apache SpamAssassin report to Board for June 2022](#)
Page: [Apache SpamAssassin report to Board for June 2023](#)
Page: [Apache SpamAssassin report to Board for March 2020](#)
Page: [Apache SpamAssassin report to Board for March 2021](#)
Page: [Apache SpamAssassin report to Board for March 2022](#)
Page: [Apache SpamAssassin report to Board for March 2023](#)
Page: [Apache SpamAssassin report to Board for March 2024](#)
Page: [Apache SpamAssassin report to Board for October 2019](#)
Page: [Apache SpamAssassin report to Board for September 2020](#)

Page: [Apache SpamAssassin report to Board for September 2021](#)

Page: [Apache SpamAssassin report to Board for September 2022](#)

Page: [Apache SpamAssassin report to Board for September 2023](#)

Page: [ApacheCon](#)
Page: [ArgumentWithUnderscoreIsntNumeric](#)
Page: [ArikFunke](#)
Page: [AskingAboutIntegrations](#)
Page: [AskingQuestions](#)
Page: [AssassinDeamon](#)
Page: [AuthzUserPlugin](#)
Page: [AutolearningNotWorking](#)
Page: [AutoMassChecks](#)
Page: [AutoRuleUpdates](#)
Page: [AutoWelcomelist](#)
Page: [AutoWhitelist](#)
Page: [AutoWhitelistExpiry](#)
Page: [AvoidingFpsForAdmins](#)
Page: [AvoidingFpsForSenders](#)
Page: [AwlWrongWay](#)

B

Page: [BasicConfiguration](#)
Page: [BattingAverage](#)
Page: [BayesAccuracy](#)
Page: [BayesBenchmark](#)
Page: [BayesBenchmarkResults](#)
Page: [BayesBitMe](#)
Page: [BayesExpiration](#)
Page: [BayesFaq](#)
Page: [BayesFeedbackViaForwarding](#)
Page: [BayesForceExpire](#)
Page: [BayesInSpamAssassin](#)
Page: [BayesMigration](#)
Page: [BayesNotWorking](#)
Page: [BayesSqlClearUsers](#)
Page: [BayesStopList](#)
Page: [BecomingCommitter](#)
Page: [BecomingPmc](#)
Page: [BerndHSteiner](#)
Page: [BetterDocumentation](#)
Page: [BetterDocumentation GeneralDiscussion](#)

Page: [BetterDocumentation InstallTxt](#)
Page: [BetterDocumentation LdapReadme](#)
Page: [BetterDocumentation ReadmeTxt](#)
Page: [BetterDocumentation SpamdReadme](#)
Page: [BetterDocumentation SqlReadme](#)
Page: [BetterDocumentation SqlReadmeAwl](#)
Page: [BetterDocumentation SqlReadmeBayes](#)
Page: [BetterDocumentation UsageTxt](#)
Page: [BlackSpider](#)
Page: [BlogSpamAssassin](#)
Page: [Board Reports](#)
Page: [BobMenschel](#)
Page: [BobProulx](#)
Page: [BodyTestsPl](#)
Page: [BogusSpamStatusHeader](#)
Page: [BooksAboutSpamAssassin](#)
Page: [BradBulger](#)
Page: [BrainStorming](#)
Page: [BretMiller](#)
Page: [Bug Writing Guidelines](#)
Page: [BugZilla](#)
Page: [BuildBot](#)
Page: [BuildBotIndex](#)
Page: [BuildBotUpgradeNotes](#)
Page: [BuildingOnSunOS4](#)
Page: [BuildSpamcOnWindowsForFree](#)

C

Page: [CachingNameserver](#)
Page: [CalebPhillips](#)
Page: [CanIt](#)
Page: [CantCallMethodBgSend](#)
Page: [CantLocateNoMailAudit](#)
Page: [CasperTone2003](#)
Page: [CatalinIonescu](#)
Page: [CeasNotesJustin](#)
Page: [ChangeLog](#)
Page: [Changes301](#)
Page: [Changes302](#)
Page: [Changes303](#)
Page: [Changes304](#)
Page: [ChangingMarkup](#)
Page: [CharlieScott](#)
Page: [ChooseYourRules](#)
Page: [ChristianHansen](#)
Page: [ClamAVMultipleScores](#)
Page: [ClamAVPlugin](#)
Page: [ClaVettingProcess](#)
Page: [CodingStyle](#)
Page: [CollaborativeManual](#)
Page: [CommercialISPs](#)
Page: [CommercialMacOSX](#)
Page: [CommercialMaybe](#)
Page: [CommercialNetworkAppliances](#)
Page: [CommercialProducts](#)
Page: [CommercialUnix](#)
Page: [CommercialWindows](#)
Page: [CommuniGate](#)
Page: [CompileOnWindows](#)
Page: [ConfFileOrder](#)
Page: [ConnectionManagementSystems](#)
Page: [ContinuousTesting](#)
Page: [ContributingNewRules](#)
Page: [CordBeermann](#)
Page: [Corpora](#)
Page: [CorpusCleaning](#)
Page: [CorpusNightlyScript](#)
Page: [CraigHughes](#)
Page: [CraigMacdonald](#)
Page: [CustomDeleteTag](#)
Page: [CustomPlugins](#)
Page: [CustomRulesets](#)

D Page: DallasEngelken Page: DaniellLemke Page: DanielQuinlan Page: DanKohn Page: Darxus Page: DarylC.W Page: DateRev Page: DavidCary Page: DbDumpAndLoad Page: DbFileSleepBug Page: DBIPlugin Page: DebugChannels Page: DeepRecursionInDbFile Page: DeletingAllMailsMarkedSpam Page: DetlevLengsfeld Page: DevBookmarks Page: DevelopmentMode Page: DevelopmentStuff Page: DirQueue Page: DisableAutoRuleUpdates Page: DisablingRules Page: DnsblAccuracy082005 Page: DnsBlocklists Page: DnsBlocklistsInclusionPolicy Page: DontBlockTheBat Page: Dovecot Page: DownloadFromSvn Page: DoYouWantMyHam Page: DoYouWantMySpam Page: DumpTextPlugin Page: DuncanFindlay Page: DynablockIssues	E Page: EnvelopeSenderInHeaders Page: EnvelopeSenderInReceived Page: EraEriksson Page: EugeneLarvie Page: EximProcmailCorruptMsgs Page: ExperimentalTheoretical
F Page: FalseNegative Page: FalseNegatives Page: FalsePositive Page: FalsePositives Page: FasterPerformance Page: FeatureList Page: FilteringViruses Page: FindingIntegrations Page: FixingAllTrusted Page: FixingBadLearning Page: FixingErrors Page: FORGED MUA OUTLOOK Page: FpFnPercentages Page: FqdnError Page: Frame Construction Series Jaw Crusher Page: FredTarasevicius Page: FrequentlyAskedQuestions Page: FromNotReplyTo Page: FuzzyOcrPlugin	G Page: GadiCohen Page: GeneticAlgorithm Page: Grassfindlinks

H Page: Ham Page: HandClassifiedCorpora Page: HashBuster Page: HashCash Page: HashSharingSystem Page: Hege Page: HeinoBackhaus Page: HenrikKrohns Page: HenryStern Page: HistoricNews Page: HitFrequencies Home page: Home Page: HomePage Page: HomerClar Page: HowScoresAreAssigned Page: HowToDebug Page: HowToTellWhatsGoingOn	I Page: IanNeubert Page: IgorBerger Page: IgorBergerTalk Page: ImportantInitialConfigItems Page: ImproveAccuracy Page: IncreaseAccuracy Page: IncubatorToDo Page: InfinityMail Page: InfraNotes Page: InfraNotes GrantingKarma Page: InfraNotes2017 Page: InfraNotes2020 Page: InstallingDCC Page: InstallingOnMacHighSierra Page: InstallingOnWindows Page: InstallingPyzor Page: InstallingRazor Page: IntegratedInCourierUsingMaildrop Page: IntegratedInMta Page: IntegratedInMua Page: IntegratedInPostfixWithAmavis Page: IntegratedInQmailWithIfspamh Page: IntegratedInQmailWithQmailScanner Page: IntegratedSolutions Page: IntegratedSpamdInPostfix Page: IntegratePostfixViaSpampd Page: IntegratingSA Page: InTheNews Page: IoSocketInetInvalidArgument Page: Ipv6Resolver Page: IRC Page: Ivo Truxa Page: IXhash
J Page: JamesBlessing Page: Jidanni Page: JohnHardin Page: JonathanBuhacoff Page: JosefRadinger Page: JustinMason	K Page: KellyAnderson Page: KevinMcGrail Page: KurtYoder Page: KymaqeLubywen

L Page: LarsOlson Page: LearningMarkedUpMessages Page: LearnMore Page: Loaf Page: LocalCfNotRead Page: LocalSpellingWords Page: LogoContest Page: LogoContestDiscussion Page: LogoContestEntries Page: LogoContestTiebreaker Page: LogoDetails	M Page: MailAuditBodyError Page: MailingLists Page: MailManglingInTheField Page: MailPoint Page: MailProxy Page: MailScanner Page: MakeMissingSeparator Page: MalteStretz Page: ManualNightlyMassCheck Page: ManualRuleUpdates Page: ManualWhitelist Page: ManuxMike Page: MassCheck Page: MasscheckAntidrug Page: MasscheckBackhair Page: MasscheckBigEvil Page: MasscheckBlacklist Page: MasscheckBogusVirus Page: MasscheckChickenpox Page: MasscheckChineserules Page: MasscheckEvilNumbers Page: MasscheckGeeWhizChineseRuleset Page: MasscheckRandom Page: MassChecks Page: MassCheckSlave Page: MasscheckTripwire Page: MasscheckWeeds Page: MassesOverview Page: MattKettler Page: MaxClientsWarning Page: MeasuringAccuracy Page: MessageLabs Page: MichaelDouma Page: MichaelMonnerie Page: MichaelParker Page: MikeBrown Page: MIMEDefang Page: MissedSpam Page: MortenIsaksen Page: MtaFilterNotWorking Page: MtaIntegrationDevNotes Page: MultiFileRuleSets
N Page: NetIdentPrototype Page: NetTestFirewallIssues Page: NetworkTests Page: NetworkTestsLatency Page: NewTrapsPlan Page: NewUploadedCorporaUser Page: NextRelease Page: NightlyMassCheck Page: NoProcessOnOverload Page: NotSpam	O Page: OcrPlugin Page: OeFilter Page: OeSixForwardFps Page: OliverSchulzeL Page: OpenDnsAndUribls Page: OpenInfraIssues Page: OpenProtect Page: OpensslKrb Page: OtherTricks Page: OutOfFileDescriptors Page: OutOfMemoryProblems

P

Page: [ParkerMorse](#)
Page: [PaulLaudanski](#)
Page: [Perceptron](#)
Page: [PerlAccessorsConsideredHarmful](#)
Page: [PeterDrenth](#)
Page: [PeterGervai](#)
Page: [PluginWritingTips](#)
Page: [PluralOfCorpus](#)
Page: [PlussedEmail](#)
Page: [Pod2ManRedHat](#)
Page: [Pop3Proxy](#)
Page: [POPAuthPlugin](#)
Page: [Porkchop](#)
Page: [PostfixSpamd](#)
Page: [PrecisionAndRecall](#)
Page: [PredictiveValue](#)
Page: [PreflightBuildBot](#)
Page: [PreflightByMail](#)
Page: [PresentationsAndPapers](#)
Page: [PressContacts](#)
Page: [ProcmailTaintWarning](#)
Page: [ProcmailToForwardMail](#)
Page: [ProcmailVsSnrsh](#)
Page: [ProfilingRulesWithDprof](#)
Page: [ProjectRoles](#)
Page: [PublicRules](#)
Page: [PublishingRuleUpdates](#)
Page: [PythonLanguage](#)

Q

Page: [QmailSpfPatch](#)

R

Page: [RazorAmavisd](#)
Page: [RazorBadFileDesc](#)
Page: [RazorCantLocateNew](#)
Page: [RazorHowToTell](#)
Page: [RazorInsecureDependency](#)
Page: [RazorSiteWide](#)
Page: [RazorUnblessedRefs](#)
Page: [RBL](#)
Page: [RedHatMalformedUtf8](#)
Page: [RelayCountryPlugin](#)
Page: [RelayedByDialup](#)
Page: [Release310Schedule](#)
Page: [Release320Schedule](#)
Page: [ReleaseGoals](#)
Page: [ReleasePolicy](#)
Page: [RemotelmapFolder](#)
Page: [RemovedRulesets](#)
Page: [RemovingBugzillaSpam](#)
Page: [RenataBignardi](#)
Page: [ReplaceTags](#)
Page: [Report spam](#)
Page: [ReportingBugs](#)
Page: [ReportingMboxesToRazor](#)
Page: [ReportingSpam](#)
Page: [ReportingToRazor](#)
Page: [RescoreDetails](#)
Page: [RescoreDetails310](#)
Page: [RescoreDetails320](#)
Page: [RescoreMassCheck](#)
Page: [RescoreMassCheck310](#)
Page: [RescoreMassCheck320](#)
Page: [RescoreSet01Details](#)
Page: [RescoreSet23Details](#)
Page: [RescoreTenFcv](#)
Page: [RescoringProcess](#)
Page: [ResendingMailWithHeaders](#)
Page: [Rfc822Format](#)
Page: [Richardkreider](#)
Page: [RocGraphs](#)
Page: [RodBegbie](#)
Page: [RodRoark](#)
Page: [RoundingIssues](#)
Page: [RsyncAccounts](#)
Page: [RsyncConfig](#)
Page: [RuleDevelopment](#)
Page: [RuleFilenameConventions](#)
Page: [RuleLifeCycle](#)
Page: [RuleQaApp](#)
Page: [RuleSandboxes](#)
Page: [RulesNotEnglish](#)
Page: [RulesProjBuildBot](#)
Page: [RulesProjCompiler](#)
Page: [RulesProjectPlan](#)
Page: [RulesProjMoreInput](#)
Page: [RulesProjPromotion](#)
Page: [RulesProjSandboxes](#)
Page: [RulesProjSecrecy](#)
Page: [RulesProjStreamlining](#)
Page: [RuleUpdates](#)
Page: [RunningGa](#)
Page: [RunningPerceptron](#)
Page: [RunningSaUpdate](#)

S

Page: [Sa-learn](#)
Page: [Sa263MakeWithPerl582](#)
Page: [SaCompileRefSymbolError](#)
Page: [Salearn](#)
Page: [SaMilter030CorruptMsgs](#)
Page: [SaProxy](#)
Page: [SaProxyByHand](#)
Page: [SaProxyStatus](#)
Page: [SareChannels](#)
Page: [SaUpdateBackend](#)
Page: [SaUpdateKeyNotCrossCertified](#)
Page: [SaUpdateMirrorSetup](#)
Page: [SaUpdatePlan](#)
Page: [Scores](#)
Page: [ScottWilson](#)
Page: [Security](#)
Page: [SecurityPolicy](#)
Page: [SeparateLogFile](#)
Page: [Sergio](#)
Page: [Setting up a build/testing/release environment](#)
Page: [SettingUpSSL](#)
Page: [ShortcircuitingRuleset](#)
Page: [ShrinkAutoWhiteList](#)
Page: [SidneyMarkowitz](#)
Page: [SimoneHolly](#)
Page: [SingleUserUnixInstall](#)
Page: [SiteContest](#)
Page: [SiteWideBayesFeedback](#)
Page: [SiteWideBayesSetup](#)
Page: [SiteWideGeneralNotes](#)
Page: [SitewidePostfixBayes](#)
Page: [SitewideServerSpec](#)
Page: [SocNightlyMassCheck](#)
Page: [SoughtRules](#)
Page: [SourceForge](#)
Page: [Spam](#)
Page: [SpamArrow](#)
Page: [SpamAssassin](#)
Page: [SpamAssassin on Mac OS X Server](#)
Page: [SpamAssassinAsfZone](#)
Page: [SpamAssassinChallenge](#)
Page: [SpamAssassinDoesNotDoThat](#)
Page: [SpamAssassinHistory](#)
Page: [SpamAssassinRules](#)
Page: [SpamassNotFirstHop](#)
Page: [SpamCorral](#)
Page: [SpamdCoredumps](#)
Page: [SpamdKillingServer](#)
Page: [SpamdOnMacOsx](#)
Page: [SpamdOnWindows](#)
Page: [SpamdSyslogFormat](#)
Page: [SpamFilteringServices](#)
Page: [SpamFuProxy](#)
Page: [SpamKiller](#)
Page: [SpamMover](#)
Page: [SpamQuarantine](#)
Page: [SpamTrapBackend](#)
Page: [SpamTrapping](#)
Page: [SplitLogsIntoBuckets](#)
Page: [SqlOnWindows](#)
Page: [SslMassCheck](#)
Page: [StartUsing](#)
Page: [StatsAndAnalyzers](#)
Page: [StatsPlugin](#)
Page: [StatusRounding](#)
Page: [SteveCharmer](#)
Page: [StopBlockingMyMail](#)
Page: [StopBlockingOthersMail](#)
Page: [StorableNotFound](#)
Page: [SubjectRewrite](#)
Page: [SummerOfCode2006](#)
Page: [SURBL](#)
Page: [SvnBranches](#)
Page: [SvnCertUpdate](#)
Page: [SyncDebianPackaging](#)

T Page: TarasFetsyuk Page: TenFoldCrossValidation Page: Tengutech Page: Testimonials Page: TestingInstallation Page: TestingSearch Page: TextWrapError Page: ThankTheTeam Page: TheFaqHasMoved Page: TheoVanDinter Page: ThirdPartySoftware Page: ThirdPartySoftware Monitoring Page: TimHunter Page: TomekSerafin Page: TopSharedMemoryBug Page: TotalCostRatio Page: TranslateFrench Page: TranslateText Page: TrustedRelays Page: TrustedRelaysDebugExample Page: TrustNetNotes Page: TrustPath Page: TspamdHuptCompileError Page: TurnTide Page: TxRep	U Page: UlfEdvinsson Page: UnmaintainedCustomPlugins Page: UpgradeNotes Page: UpgradeTo300 Page: UpgradeTo310 Page: UpgradingVersion Page: UploadedCorpora Page: UploadedCorporaIndependentMassCheck Page: URICountryPlugin Page: UsedViaProcmal Page: UserPrefRuleTest Page: UsingAnAccountForLearning Page: UsingBugzilla Page: UsingDcc Page: UsingMutt Page: UsingNetworkTests Page: UsingOnOsx Page: UsingOnWindows Page: UsingOverlap Page: UsingProcmal Page: UsingPyzor Page: UsingRazor Page: UsingSiteWide Page: UsingSpamAssassin Page: UsingSQL Page: UsingTests Page: Utf8Performance
V Page: ValidateModel Page: VBounceRuleset Page: Vincent Li Page: VirusScannerTypeUpdates Page: VotingProcedure	W Page: WebRedirectPlugin Page: WebShield Page: WebUserInterfaces Page: WelcomelistBlocklist Page: WeLoveVolunteers Page: WesMorgan Page: WhereDoLocalSettingsGo Page: WhitelistFromRcvdAndTrust Page: WhitelistingEverybody Page: WhiteListSubjectPlugin Page: WhyUseRules Page: WikiNode Page: WilliamStearns Page: WinSpamC Page: WritingRules Page: WritingRulesAdvanced Page: WrongMXPlugin
X Page: X Spam Status	Y
Z	!@#\$