1 KEYWORDS TO SEARCH GITTER CHAT ROOMS

Keyword	Software development activities	Software quality	Software architecture	Number of chat rooms
architecture	x		x	4
availability			x	3
configuration		x		4
decision or making			x	4
design	x			1
development or "develop"	x			6
evolution	x			1
framework or "frame"			x	4
maintenance	x			4
management or "manage"		x		6
modifiability or "modify"			x	3
pattern			x	2
performance			x	3
practice		x		1
quality		x		3
reference			x	3
release or "relea"		x		6
requirement or "require"	x			3
security			x	3
software or engineering or "engine"	x			9
solution			x	3
tactic			x	1
technology or "techno"			x	4
testability or "test" or "testa"	x		x	6
usability or "use"			x	3
			Total of unique groups	90

2 LIST OF CHAT ROOMS SELECTED AS CASES

(1) https://gitter.im/sorintlab/stolon
(2) https://gitter.im/username-availability-checker/Lobby
(3) https://gitter.im/lnug/london-node-jobs
(4) https://gitter.im/IanLunn/Hover
(5) https://gitter.im/robocomp/robocomp
(6) https://gitter.im/CocoaPods/Xcodeproj
(7) https://gitter.im/flutter/flutter
(8) https://gitter.im/akka/akka
(9) https://gitter.im/lodash/lodash
(10) https://gitter.im/spring-projects/spring-security
(11) https://gitter.im/spring-projects/spring-security-oauth
(12) https://gitter.im/spring-cloud/spring-cloud-security
(13) https://gitter.im/scikit-learn/scikit-learn
(14) https://gitter.im/kovan-testnet/faucet
(15) https://gitter.im/cypress-io/cypress
(16) https://gitter.im/mochajs/mocha
(17) https://gitter.im/TestAndCode/Lobby
(18) https://gitter.im/FreeCodeCamp/testable-projects-fcc
(19) https://gitter.im/webpack/webpack
(20) https://gitter.im/ethereum/go-ethereum
(21) https://gitter.im/reactjs/redux

, ,

(22) https://gitter.im/Microsoft/mwt-ds
(23) https://gitter.im/denariusproject/Lobby
(24) https://gitter.im/FreeCodeCamp/Contributors
(25) https://gitter.im/simpleinvoices/simpleinvoices
(26) https://gitter.im/reactioncommerce/architecture
(27) https://gitter.im/googlesamples/android-architecture
(28) https://gitter.im/BinaryMuse/fluxxor
(29) https://gitter.im/jdubray/sam-architecture
(30) https://gitter.im/google/material-design-lite
(31) https://gitter.im/valor-software/ng2-bootstrap
(32) https://gitter.im/locomotivecms/engine
(33) https://gitter.im/amethyst/engine
(34) https://gitter.im/vespa-engine/Lobby
(35) https://gitter.im/ConsenSys/smart-contract-best-practices
(36) https://gitter.im/iBotPeaches/Apktool
(37) https://gitter.im/andreis/interview
(38) https://gitter.im/hopelessoptimism/data-engineering-101
(39) https://gitter.im/els-core-engineering/replicator
(40) https://gitter.im/iluwatar/java-design-patterns
(41) https://gitter.im/pattern-lab/node
(42) https://gitter.im/twbs/bootstrap
(43) https://gitter.im/laravel/laravel
(44) https://gitter.im/allure-framework/allure-core
(45) https://gitter.im/FreeCodeCamp/DataScience
(46) https://gitter.im/ga4gh/server
(47) https://gitter.im/PerfectlySoft/PerfectDocs
(48) https://gitter.im/braziljs/js-the-right-way
(49) https://gitter.im/thephpleague/tactician-bernard
(50) https://gitter.im/flajann2/rubyneat
(51) https://gitter.im/Hotel-Reservation-Project/requirements
(52) https://gitter.im/webpack/docs
(53) https://gitter.im/davidguttman/node-browserify
(54) https://gitter.im/gushphp/gush
(55) https://gitter.im/sourcejs/Source
(56) https://gitter.im/R4stl1n/allianceauth
(57) https://gitter.im/survivejs/maintenance
(58) https://gitter.im/numenta/public
(59) https://gitter.im/intercooler-js/Lobby
(60) https://gitter.im/webuildsg/live
(61) https://gitter.im/python-babel/babel/maintenance-corner
(62) https://gitter.im/angular-ui/ui-router
(63) https://gitter.im/kriasoft/universal-router
(64) https://gitter.im/katalon-studio/Lobby
(65) https://gitter.im/expressjs/express
(66) https://gitter.im/ConsenSys/truffle
(67) https://gitter.im/FreeCodeCamp/HelpBackEnd
(68) https://gitter.im/Mixer/developers
(69) https://gitter.im/MonoGame/MonoGame
(70) https://gitter.im/gitterHQ/developers
(71) https://gitter.im/DefinitelyTyped/DefinitelyTyped
(72) https://gitter.im/vaadin/web-components
(73) https://gitter.im/facebook/flow
(74) https://gitter.im/jenkinsci/configuration-as-code-plugin
(75) https://gitter.im/robbyrussell/oh-my-zsh
(76) https://gitter.im/lightbend/config
(77) https://gitter.im/gitlabhq/gitlabhq
(78) https://gitter.im/snipe/snipe-it

(79) https://gitter.im/ngrx/store
(80) https://gitter.im/ManageIQ/manageiq
(81) https://gitter.im/RaRe-Technologies/gensim
(82) https://gitter.im/ManageIQ/manageiq/ui
(83) https://gitter.im/BVLC/caffe
(84) https://gitter.im/milessabin/shapeless
(85) https://gitter.im/reactor/reactor
(86) https://gitter.im/researchgate/gradle-release
(87) https://gitter.im/semantic-release/semantic-release
(88) https://gitter.im/rchain/Releases
(89) https://gitter.im/senecajs/seneca-in-practice
(90) https://gitter.im/uttesh/pdfngreport

3 GENERAL DEMOGRAPHIC OF CHAT ROOMS

Chat rooms name	Number of users	Number of messages	Time frame in months	∅ Messages per month	∅ Messages per user
akka/akka	4265	141604	52	2723.15	33.2
allure-framework/allure-core	851	14869	52	285.94	17.5
amethyst/engine	96	22282	28	795.79	232.1
andreis/interview	224	96	58	1.66	0.4
angular-ui/ui-router	382	9241	44	210.02	24.2
BinaryMuse/fluxxor	289	2707	20	135.35	9.4
braziljs/js-the-right-way	66	90	35	2.57	1.4
BVLC/caffe	2034	4295	44	97.61	2.1
CocoaPods/Xcodeproj	36	15	30	0.5	0.4
ConsenSys/smart-contract-best-practices	682	3222	33	97.64	4.7
ConsenSys/truffle	4821	62678	47	1333.57	13.0
cypress-io/cypress	3695	164432	50	3288.64	44.5
davidguttman/node-browserify	58	183	6	30.5	3.2
DefinitelyTyped/DefinitelyTyped	468	1612	48	33.58	3.4
denariusproject/Lobby	360	260864	57	4576.56	724.6
Elsevier Core Engineering/replicator	28	1249	17	73.47	44.6
ethereum/go-ethereum	8073	129848	58	2238.76	16.1
expressjs/express	4665	18864	53	355.92	4.0
facebook/flow	364	1741	29	60.03	4.8
flajann2/rubyneat	8	10	25	0.4	1.3
flutter/flutter	7456	365706	38	9623.84	49.0
FreeCodeCamp/Contributors	2037	69670	35	1990.57	34.2
FreeCodeCamp/DataScience	2335	15102	46	328.3	6.5
FreeCodeCamp/HelpBackEnd	4098	122406	41	2985.51	29.9
FreeCodeCamp/testable-projects-fcc	18	420	9	46.67	23.3
ga4gh/server	40	221	5	44.2	5.5
gitlabhq/gitlabhq	2984	17338	64	270.91	5.8
gitterHQ/developers	11693	41983	35	1199.51	3.6
google/material-design-lite	4480	15036	47	319.91	3.4
googlesamples/android-architecture	296	244	39	6.26	0.8
gushphp/gush	112	113	46	2.46	1.0
hopelessoptimism/data-engineering-101	18	29	47	0.62	1.6
Hotel-Reservation-Project/requirements	7	65	0	0	9.3
IanLunn/Hover	72	50	48	1.04	0.7
iBotPeaches/Apktool	215	1768	40	44.2	8.2

Chat rooms name	Number of users	Number of messages	Time frame in months	∅ Messages per month	∅ Messages per user
iluwatar/java-design-patterns	797	1330	36	36.94	1.7
intercooler-js/Lobby	108	2288	30	76.27	21.2
jdubray/sam-architecture	81	1112	41	27.12	13.7
jenkinsci/configuration-as-code-plugin	291	9408	16	588	32.3
katalon-studio/Lobby	965	15471	10	1547.1	16.0
kovan-testnet/faucet	20203	135006	21	6428.86	6.7
kriasoft/universal-router	222	1031	42	24.55	4.6
laravel/laravel	6982	88799	63	1409.51	12.7
lightbend/config	236	1797	47	38.23	7.6
lnug/london-node-jobs	48	79	15	5.27	1.6
locomotivecms/engine	214	13900	51	272.55	65.0
lodash/lodash	1007	18368	52	353.23	18.2
ManageIQ/manageiq	627	75738	46	1646.48	120.8
ManageIQ/manageiq/ui	233	35997	46	782.54	154.5
Microsoft/mwt-ds	26	137	22	6.23	5.3
milessabin/shapeless	1338	42131	53	794.92	31.5
Mixer/developers	741	46128	47	981.45	62.3
mochajs/mocha	2094	24242	55	440.76	11.6
MonoGame/MonoGame	681	45507	36	1264.08	66.8
ngrx/store	1407	44329	41	1081.2	31.5
numenta/public	556	21494	39	551.13	38.7
pattern-lab/node	241	5797	33	175.67	24.1
PerfectlySoft/PerfectDocs	60	240	0	0	4.0
piskvorky/gensim	322	96275	33	2917.42	299.0
python-babel/babel/maintenance-corner	6	1743	26	67.04	290.5
R4stl1n/allianceauth	228	136163	28	4862.96	597.2
rchain/Releases	30	42	4	10.5	1.4
reactioncommerce/architecture	71	280	20	14	3.9
reactjs/redux	3693	16740	41	408.29	4.5
reactor/reactor	1005	38024	50	760.48	37.8
researchgate/gradle-release	162	576	29	19.86	3.6
robbyrussell/oh-my-zsh	446	308	32	9.63	0.7
robocomp/robocomp	75	354	49	7.22	4.7
scikit-learn/scikit-learn	3200	20372	59	345.29	6.4
semantic-release/semantic-release	183	4868	39	124.82	26.6
senecajs/seneca-in-practice	54	76	29	2.62	1.4
simpleinvoices/simpleinvoices	164	20	23	0.87	0.1
snipe/snipe-it	1808	72178	52	1388.04	39.9
sorintlab/stolon	180	2163	39	55.46	12.0
sourcejs/Source	71	732	24	30.5	10.3
spring-cloud/spring-cloud-security	385	3456	54	64	9.0
spring-projects/spring-security	951	15890	47	338.09	16.7
spring-projects/spring-security-oauth	736	11416	52	219.54	15.5
survivejs/maintenance	13	1749	10	174.9	134.5
TestAndCode/Lobby	24	11000	29	379.31	458.3
thephpleague/tactician-bernard	5	54	31	1.74	10.8
twbs/bootstrap	8946	17296	47	368	1.9
username-availability-checker/Lobby	8	351	2	175.5	43.9
uttesh/pdfngreport	18	44	31	1.42	2.4
vaadin/web-components	420	5739	42	136.64	13.7

Chat rooms name	Number of users	Number of messages	Time frame in months	∅ Messages per month	∅ Messages per user
valor-software/ng2-bootstrap	373	4902	42	116.71	13.1
vespa-engine/Lobby	80	2670	21	127.14	33.4
webpack/docs	171	938	39	24.05	5.5
webpack/webpack	16642	218888	68	3218.94	13.2
webuildsg/live	105	2432	17	143.06	23.2