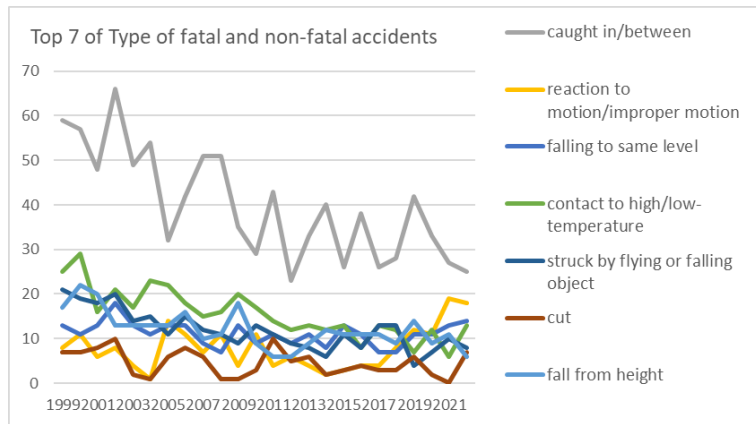
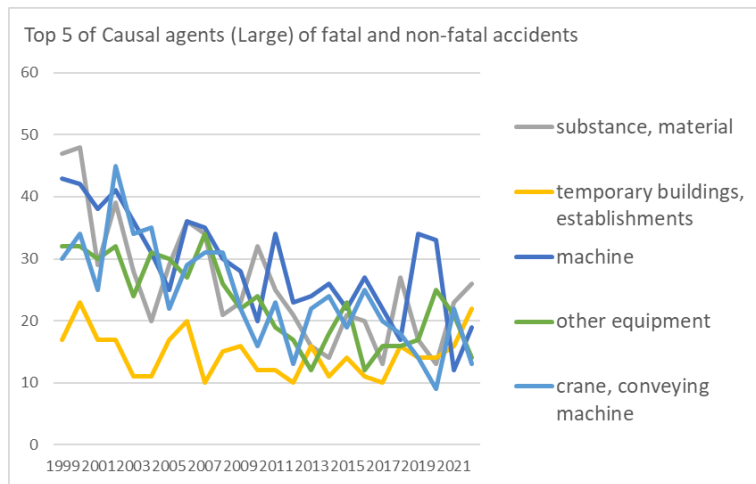


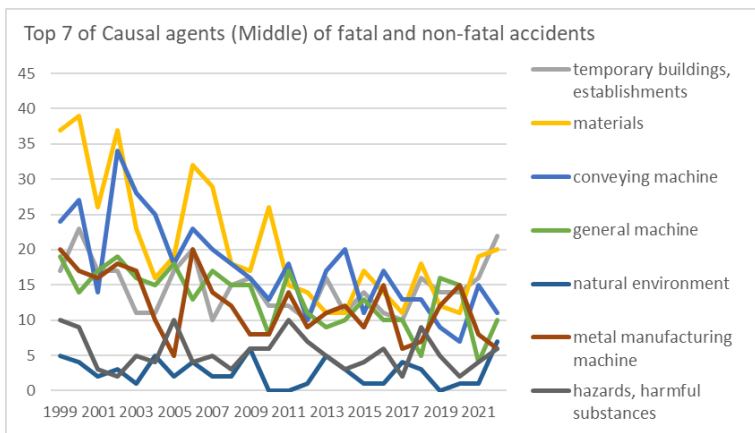
Transition of fatal and non-fatal accidents in 011101 nonferrous metals/rolling products in Japan (1999-2022)



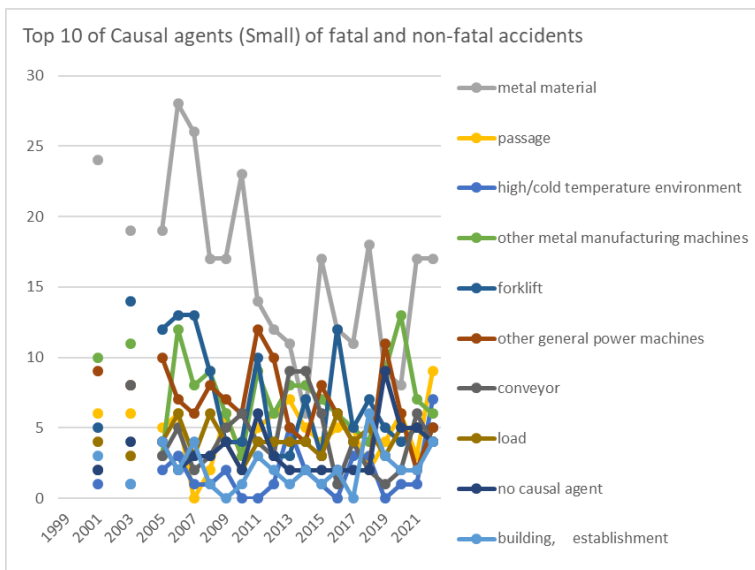
Transition of Top 7 of Type of fatal and non-fatal accidents in 011101 nonferrous metals/rolling products in Japan (1999-2022)



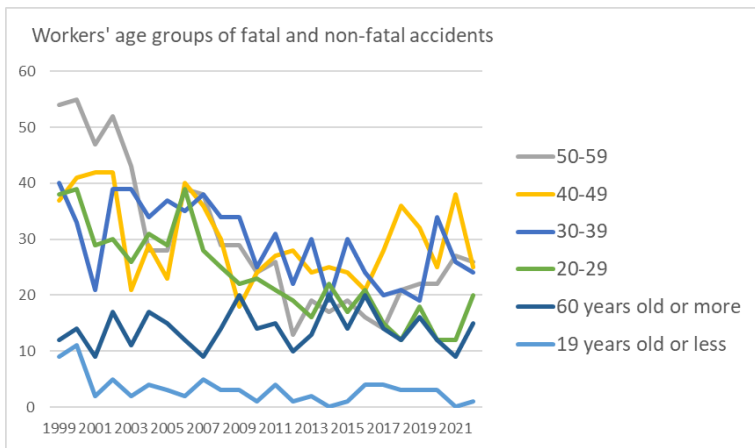
Transition of Top 5 of Causal agents (Large) of fatal and non-fatal accidents in 011101 nonferrous metals/rolling products in Japan (1999-2022)



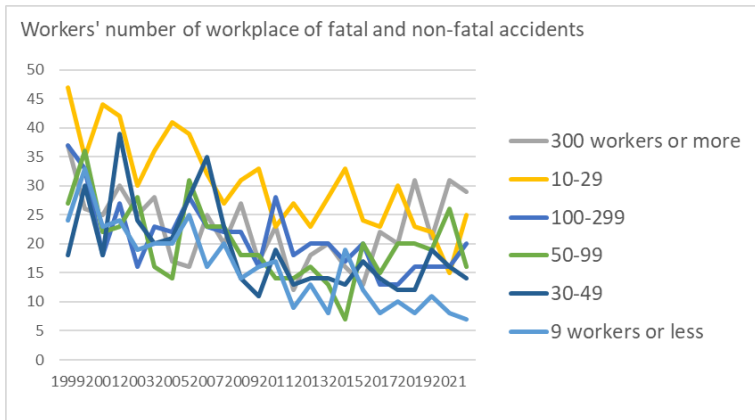
Transition of Top 7 of Causal agents (Middle) of fatal and non-fatal accidents in 011101 nonferrous metals/rolling products in Japan (1999-2022)



Transition of Top 10 of Causal agents (Small) of fatal and non-fatal accidents in 011101 nonferrous metals/rolling products in Japan (1999-2022)



Transition of workers' age groups of fatal and non-fatal accidents in 011101 nonferrous metals/rolling products in Japan (1999-2022)



Transition of workers' number of workplace of fatal and non-fatal accidents in 011101 nonferrous metals/rolling products in Japan (1999-2022)

motion/improper motion	8	11	6	8	4	1	14	11	7	11	4	11	4	6	4	2	3	4	4	8	12	11	19	18	191	motion/improper motion	
falling to same level	13	11	13	18	13	11	13	13	9	7	13	9	11	9	11	8	13	11	7	7	11	11	13	14	269	falling to same level	
contact to high/low-temperature	25	29	16	21	17	23	22	18	15	16	20	17	14	12	13	12	13	8	13	12	7	12	6	13	374	contact to high/low-temperature	
struck by flying or falling object	21	19	18	20	14	15	11	15	12	11	9	13	11	9	8	6	11	8	13	13	4	7	10	8	286	struck by flying or falling object	
cut	7	7	8	10	2	1	6	8	6	1	1	3	10	5	6	2	3	4	3	3	6	2		7	111	cut	
fall from height	17	22	20	13	13	13	13	16	10	11	18	9	6	6	9	12	11	11	11	9	14	9	11	6	290	fall from height	
crashed by	13	10	7	11	7	10	7	18	13	12	7	2	9	6	1	11	4	9	4	4	5	6	6	6	188	crashed by	
collapse	8	4	3	1	5	1	2	7	7	4	5	2	3	5	5	3	7	2	3	3	2	2	3	5	92	collapse	
contact to harmful substance	4	7	3	1	6	2	10	4	5	1	6	3	6	4	3	1	3	3	1	7	3	1	4	3	91	contact to harmful substance	
crash	6	5	3	7	5	5	3	9	6	6	3	6	1	4	6	1	4	2	6	8	3	9	6	2	116	crash	
explosion	7	6	2	2	1	3	2	3	9	3	5	2	1	3	3		3	4	1			1	2	2	65	explosion	
others					3	1		2	1			1	2		2		1		1		1		5	2	22	others	
traffic accident (public road)		2	2	1	1	2			2			1	2				1	1	2	1			2			20	traffic accident (public road)
injury to the sole of the foot	2			1				1		1		1		1		1				1		1			10	injury to the sole of the foot	
fire		1				1						1	1				1	1			2				8	fire	
burst				5	1														1						7	burst	

no causal agent	3	5	2	5	4	2	4	2	3	3	4	2	6	3	2	2	2	2	2	2	9	5	5	4	83	agent
kiln, caldron	9	10	10	8	11	14	9	4	10	9	8	10	6	7	4	6	10	1	5	2	2	7	6	3	171	kiln, caldron
crane	5	5	9	10	5	8	3	6	8	11	5	2	4	3	5	3	7	6	7	5	5	1	7	2	132	crane
other equipments, facilities	9	4	4	10	2	2	4	6	10	8	7	1	5	1	3	3	5	3	4	6	5	5	1	2	110	other equipments, facilities
power transmission mechanism	4	9	2	2	2	4	1	2	3	3	2	1	1	1	1	2		1	3	4	4	2		2	56	power transmission mechanism
other causal agent		1	1		1		1	4	2			2	1		1	1			2	1	1		5	1	25	other causal agent
woodworking machine		1	1	1				1			1	1			1	1			1	1		1		1	12	woodworking machine
welding equipment		2										1		1										1	5	welding equipment
vehicle	1	2	2	1	1	2	1		3	2	1	1	1			1	1	2				1			23	vehicle
construction machine		1	2		1	2	1		1		2	2	2	1	2	1		1	1		2				22	construction machine
chemical facilities	1	1			1				2						1				1	1					8	chemical facilities
electric equipment	1		1	1			1				1	1													6	electric equipment
unclassifiable						2	1	1		1					1										6	unclassifiable
pressure vessel		1	1							1				1											4	pressure vessel
engine				1										1						1					3	engine

roll machine (except printingroll machine)			7		7		7	4	9	5	6	1	4	1	2	4	5	3	5	2	2	6	2	3	85	roll machine (except printingroll machine)
working platform, boot board			3				3	5	2	9	1	4	2		3	1	2	1	2	3	3	2	2	3	51	working platform, boot board
stairs, landing stage			3		2		3	2	2		6	1	2	1	2	2	3	2	1	2	3	1	6	3	47	stairs, landing stage
crane			9		4		3	6	8	11	5	2	3	3	4	3	6	5	7	4	5	1	6	2	97	crane
other equipment, facilities			4		2		4	6	10	8	7	1	5	1	3	3	5	3	4	6	5	5	1	2	85	other equipment, facilities
harmful substance			3		3		9	1	1	1	1	3	6	3	3	1	2	3		4			2	2	48	harmful substance
ladder			2		2		3	4		2	3	3	2	2		2	2	3	3		4	2	5	2	46	ladder
power transmission mechanism			2		2		1	2	3	3	2	1	1	1	1	2		1	3	4	4	2		2	37	power transmission mechanism
other hazards, harmful substances					1		1	2	3	1	1	1	1	2	1		2	3	1	3	3	2	2	2	32	other hazards, harmful substances
other materials			2		3			4	1	1		3	1	2		5		2			2		2	2	30	other materials
other temporary buildings, establishments			1		1			2		1	1	3		1	2	1	3			2	1	2	1	2	24	other temporary buildings, establishments
mixer, grinder			1				1	2	2	1	2	1			1	1		1		1	2	3		2	21	mixer, grinder
human power hauling equipment			2		1		3	1	1	1		2	1	2			1		1				3	2	21	human power hauling equipment
explosive substance											4		1	1	1	1				1				2	11	explosive substance
other tools			4		5		7	7	4	1	2	1		2	2	3	4	3	3	4	3	8	5	1	69	other tools
truck			6		5		3	4	5	5	5	2	4	1	3	2	2	4	3	4	2	1	2	1	64	truck

excavating machine							1		1		2	2	1	1	1										10	excavating machine	
inflammable substance									1	1		2	2			1										8	inflammable substance
other kiln, caldron									1				1		1											7	other kiln, caldron
roof, beam, haze, crossbeam, principal rafter									1	2																7	roof, beam, haze, crossbeam, principal rafter
leveling, transporting or loading machine																										6	leveling, transporting or loading machine
loader									1				1	1	1											6	loader
chemical facilities										1																6	chemical facilities
inflammable gas									1																	6	inflammable gas
other environments																										6	other environments
injection molding machine																										5	injection molding machine
abnormal environment																										5	abnormal environment
other powered crane																										4	other powered crane
unclassifiable																										4	unclassifiable
elevator, lift																										3	elevator, lift
engine																										2	engine
demolition machine																										2	demolition machine
other vehicles																										2	other vehicles

pressure vessel			1																				2	pressure vessel	
electric power facilities			1								1													2	electric power facilities
other electrical equipment																								2	other electrical equipment
human power machine			1																				1	2	human power machine
scaffolding																								2	scaffolding
stone, sand, substance																								2	stone, sand, substance
band sawing machine																								1	band sawing machine
chain saw																								1	chain saw
other woodworking machines																								1	other woodworking machines
other construction machines			1																					1	other construction machines
forging pressure hammer																								1	forging pressure hammer
food manufacturing machine																								1	food manufacturing machine
industrial robot																								1	industrial robot
railway equipment																								1	railway equipment
other pressure vessels																								1	other pressure vessels

total	190	193	150	185	142	143	135	167	154	135	126	111	124	93	104	103	105	106	95	105	110	108	112	111	3,107	total
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Transition of workers' age groups of fatal and non-fatal accidents in 011101 nonferrous metals/rolling products in Japan (1999-2022)

Age	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	total	Age
50-59	54	55	47	52	43	28	28	39	38	29	29	24	26	13	19	17	19	16	14	21	22	22	27	26	708	50-59
40-49	37	41	42	42	21	29	23	40	36	30	18	24	27	28	24	25	24	21	28	36	32	25	38	25	716	40-49
30-39	40	33	21	39	39	34	37	35	38	34	34	25	31	22	30	19	30	24	20	21	19	34	26	24	709	30-39
20-29	38	39	29	30	26	31	29	39	28	25	22	23	21	19	16	22	17	21	15	12	18	12	12	20	564	20-29
60 years old or more	12	14	9	17	11	17	15	12	9	14	20	14	15	10	13	20	14	20	14	12	16	12	9	15	334	60 years old or more
19 years old or less	9	11	2	5	2	4	3	2	5	3	3	1	4	1	2		1	4	4	3	3	3		1	76	19 years old or less
total	190	193	150	185	142	143	135	167	154	135	126	111	124	93	104	103	105	106	95	105	110	108	112	111	3,107	total

Transition of workers' number of workplace of fatal and non-fatal accidents in 011101 nonferrous metals/rolling products in Japan (1999-2022)

Workers scale	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	total	Workers scale
300 workers or more	37	26	25	30	25	28	17	16	25	20	27	17	23	12	18	20	16	13	22	20	31	21	31	29	549	300 workers or more
10-29	47	35	44	42	30	36	41	39	32	27	31	33	23	27	23	28	33	24	23	30	23	22	15	25	733	10-29
100-299	37	33	18	27	16	23	22	28	23	22	22	16	28	18	20	20	17	20	13	13	16	16	16	20	504	100-299
50-99	27	36	22	23	28	16	14	31	23	23	18	18	14	14	16	13	7	20	15	20	20	19	26	16	479	50-99
30-49	18	30	18	39	24	20	21	28	35	23	14	11	19	13	14	14	13	17	14	12	12	19	16	14	458	30-49
9 workers or less	24	33	23	24	19	20	20	25	16	20	14	16	17	9	13	8	19	12	8	10	8	11	8	7	384	9 workers or less
total	190	193	150	185	142	143	135	167	154	135	126	111	124	93	104	103	105	106	95	105	110	108	112	111	3,107	total

Transition of occurred months of fatal and non-fatal accidents in 011101 nonferrous metals/rolling products in Japan (1999-2022)

Month	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	total	Month
June	21	10	10	12	12	19	12	11	14	15	14	12	17	4	7	6	11	12	10	7	12	8	12	14	282	June
October	15	18	7	18	11	14	12	14	13	10	11	13	10	8	13	8	7	6	3	9	8	10	7	12	257	October
January	20	9	16	10	11	14	7	13	14	10	13	8	7	14	8	6	15	7	9	4	10	10	5	12	252	January
September	19	8	10	13	6	10	8	15	15	11	8	8	10	6	8	12	5	12	13	8	14	7	8	12	246	September
December	16	10	14	8	8	12	6	10	7	14	13	5	8	3	5	6	6	6	5	5	5	11	9	11	203	December
March	11	19	18	18	14	17	10	12	18	16	6	10	12	4	6	10	3	9	11	7	9	13	10	10	273	March
May	9	18	19	18	18	7	9	17	14	13	10	11	9	8	7	12	6	12	10	7	7	7	12	8	268	May
August	14	17	6	16	18	11	22	8	13	8	6	11	9	12	13	8	7	10	9	10	11	15	5	8	267	August
November	15	18	10	17	6	13	9	20	11	10	10	3	13	10	9	11	10	4	3	8	7	6	11	8	242	November
April	19	21	17	15	7	7	13	17	12	12	7	14	11	12	10	4	12	4	4	14	7	6	18	7	270	April
February	10	28	9	19	15	7	12	10	8	10	17	10	12	4	13	8	10	11	10	11	10	5	7	5	261	February
July	21	17	14	21	16	12	15	20	15	6	11	6	6	8	5	12	13	13	8	15	10	10	8	4	286	July
total	190	193	150	185	142	143	135	167	154	135	126	111	124	93	104	103	105	106	95	105	110	108	112	111	3,107	total

Transition of prefectures of fatal and non-fatal accidents in 011101 nonferrous metals/rolling products in Japan (1999-2022)

Prefecture	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	total	Prefecture
Osaka	21	14	7		9		10	13	13	16	10	10	9	10	8	12	11	4	10	13	9	11	7	11	238	Osaka
Aichi	10	23	14		10		14	14	15	12	16	10	17	6	10	8	9	10	12	10	10	7	5	8	250	Aichi
Saitama	9	11	14		11		11	11	14	8	16	10	10	7	9	7	5	9	5	12	7	9	11	8	214	Saitama
Ibaraki	11	9	11		8		5	7	10	3	5	9	3	3	4	5	6	7	6	6	5	8	6	7	144	Ibaraki
Fukushima	4	8	8		6		2	4	8	4	4	5	4	5	6	5	3		3	4	2	4	8	6	103	Fukushima
Niigata		6	6		3		2	8	2	3	2	1	5	8	5	1	2	3	3	2	4	6	4	6	82	Niigata

Mie	7	7	2		6		6	3	2	5	1	4		3	4	1	2	2	1		5	5	5	6	77	Mie
Chiba	7	6	6		3		4	6	2	2		1	9	2	2	3	5	7	3	6	7	4	3	5	93	Chiba
Ehime	2	1	2		4		2	3	2	2	2	2			4	1	4	2	1	1	1	2	5	45	Ehime	
Shizuoka	11	10	7		5		5	10	8	7	10	6	3	4	5	10	5	2	5	3	2	9	10	4	141	Shizuoka
Kyoto	9	8	4		9		5	11	13	2	4	3	10	4	4	2	8	5	1	4	7	6	2	4	125	Kyoto
Yamaguchi	6	8	3		1		4	3	7	7	2	1	2	3	4	3	2	7	4	4	5	5	4	4	89	Yamaguchi
Kanagawa	5	2	4		1		3	4	1	4	1	3	6		4			4	1	1	1		4	4	53	Kanagawa
Hiroshima	2		1		4		6	2	6	2	3	1		2	2		2	3			3	2	6	4	51	Hiroshima
Tochigi	14	6	7		7		4	6	9	5	6	8	3	4	3	5	5	4	1	6	10	6	5	3	127	Tochigi
Toyama	10	8	2		4		3	8		9	7		3	3	5	7	6	2	7	3	4	2	5	3	101	Toyama
Okayama	5	6	2		1			1	2		1	4		2	3	4	3	8	5	3	2		1	3	56	Okayama
Akita	4	10	6		1		3	3	7	2	3	3	1	3	1	2	1	1	2		4	8		2	67	Akita
Kumamoto		5	1		4		1	5	1	4	1	1	2	1		2	3	1	3	3	4	2	4	2	50	Kumamoto
Shiga	3	3	3		4		2	2	1	2	1	1	3	2	1	5	1	3	1	2	2	1	1	2	46	Shiga
Kagawa	3	1	4		3		1		3	3	2	1	3		1	1				1				2	29	Kagawa
Aomori			3				1			2	1	5	4			1		1						2	20	Aomori
Hyogo	5	7	6		8		3	7	2	6	12	3	9	5	4	1	3	1	2	1	3	2	6	1	97	Hyogo
Gunma	4	5	3		1		9	12	5	3	4	7	6	2	2	2	3	3	3	3	4		1	1	83	Gunma
Tokyo	9	4	5		4		4	5	4	3	2			2	6	1	3	2	3	3	2	2	1	1	66	Tokyo
Gifu	5	3	3		7		14	6	2	3	1	1	3	2	1		3			2		2	1	1	60	Gifu
Fukui	3	6			6		1	1	3	2	1	1	1	2		1		4	1	3	1	2	3	1	43	Fukui
Nagano	3	3	4		3		1	2	1	1		1		2		1	1	1			1		4	1	30	Nagano
Hokkaido		3			2							1					1		1	1	1			1	11	Hokkaido

Tottori		2			1			1					1				1		1				1	8	Tottori		
Okinawa			1										1				1			1	2		1	7	Okinawa		
Nagasaki	2		1									1	1										1	6	Nagasaki		
Fukuoka	6	5	5		4		2	3	4	4		4	2	3	4	3	3	3	1	4	1			61	Fukuoka		
Oita	2	1	2		1		2	2	2	3	6	3			1	1	1	1	3	2	1	2	1		37	Oita	
Miyagi	5		1					1		1					3	2	4	1		2					20	Miyagi	
Yamagata	1						1		2	2					1	2	2		5				1		17	Yamagata	
Kagoshima			2				1		1	1	1	1		1											8	Kagoshima	
Nara							1	1		1	1		1			1									6	Nara	
Tokushima		2			1		2	1																	6	Tokushima	
Wakayama	1							1	1									1							4	Wakayama	
Iwate										1				1							1				3	Iwate	
Miyazaki									1				1					1							3	Miyazaki	
Yamanashi	1																								1	Yamanashi	
Kochi																							1		1	Kochi	
Ishikawa																											Ishikawa
Shimane																											Shimane
Saga																											Saga
total	190	193	150	185	142	143	135	167	154	135	126	111	124	93	104	103	105	106	95	105	110	108	112	111	3,107	total	

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