

# Probability and Paradoxes

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## birthday paradox

how many people do we need in this room to have more than 50% probability that

- ▶ someone else has the same birthday as me?

## birthday paradox

how many people do we need in this room to have more than 50% probability that

- ▶ someone else has the same birthday as me?

254

## birthday paradox

how many people do we need in this room to have more than 50% probability that

- ▶ someone else has the same birthday as me?

254

- ▶ at least two people in the room have the same birthday?

## birthday paradox

how many people do we need in this room to have more than 50% probability that

- ▶ someone else has the same birthday as me?

254

- ▶ at least two people in the room have the same birthday?

23

## birthday paradox

how many people do we need in this room to have more than 50% probability that

- ▶ someone else has the same birthday as me?

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- ▶ at least two people in the room have the same birthday?

23

probability of shared birthdays in a group of 23 people: (slightly) more than 50%

# football world cup

probability of shared birthdays in a group of 23 people: (slightly) more than 50%

Women's World Cup Canada 2015:

# List of Players

## Australia



#	FIFA Display Name	Last Name	First Name	Shirt Name	DOB	POS	Club	Height	Caps	Goals
1	Lydia WILLIAMS	WILLIAMS	Lydia Grace Yilkari	WILLIAMS	13.05.1988	GK	CaNberra UNited (AUS)	175	42	0
2	Larissa CRUMMER	CRUMMER	Larissa Rose	CRUMMER	10.01.1996	FW	BrisbaNe Roar FC (AUS)	178	5	1
3	Ashleigh SYKES	SYKES	Ashleigh	SYKES	15.12.1991	FW	CaNberra UNited (AUS)	164	14	4
4	Clare POLKINGHORNE	POLKINGHORNE	Clare Elizabeth	POLKINGHORNE	01.02.1989	DF	BrisbaNe Roar FC (AUS)	171	79	5
5	Laura ALLEWAY	ALLEWAY	Laura Colleen Gloria	ALLEWAY	28.11.1989	DF	BrisbaNe Roar FC (AUS)	178	31	2
6	Servet UZUNLAR	UZUNLAR	Yesim Servet	UZUNLAR	08.03.1989	DF	SydNey FC (AUS)	161	47	2
7	Steph CATLEY	CATLEY	Stephanie-Elise	CATLEY	26.01.1994	DF	MelbourNe Victory FC (AUS)	171	34	2
8	Elise KELLOND-KNIGHT	KELLOND-KNIGHT	Elise	KELLOND-KNIGHT	10.08.1990	DF	BrisbaNe Roar FC (AUS)	165	57	1
9	Caitlin FOORD	FOORD	Caitlin Jade	FOORD	11.11.1994	FW	Perth Glory SC (AUS)	165	30	5
10	Emily VAN EGMOND	VAN EGMOND	Emily Louise	VAN EGMOND	12.07.1993	MF	Newcastle UNited Jets FC (AUS)	179	40	11
11	Lisa DE VANNA	DE VANNA	Lisa Marie	DE VANNA	14.11.1984	FW	MelbourNe Victory FC (AUS)	156	99	35
12	Leena KHAMIS	KHAMIS	Leena	KHAMIS	19.06.1986	FW	SydNey FC (AUS)	168	25	5
13	Tameka BUTT	BUTT	Tameka	BUTT	16.06.1991	MF	BrisbaNe Roar FC (AUS)	158	46	6
14	Alanna KENNEDY	KENNEDY	Alanna Stephanie	KENNEDY	21.01.1995	DF	Perth Glory SC (AUS)	176	29	0
15	Teresa POLIAS	POLIAS	Teresa	POLIAS	16.05.1990	DF	SydNey FC (AUS)	155	9	0
16	Hayley RASO	RASO	Hayley Emma	RASO	05.09.1994	DF	BrisbaNe Roar FC (AUS)	162	13	1
17	Kyah SIMON	SIMON	Kyah Pam	SIMON	25.06.1991	FW	SydNey FC (AUS)	164	51	11
18	Melissa BARBIERI	BARBIERI	Melissa Anne	BARBIERI	20.01.1980	GK	Adelaide UNited FC (AUS)	168	85	0
19	Katrina GORRY	GORRY	Katrina-Lee	GORRY	13.08.1992	MF	BrisbaNe Roar FC (AUS)	154	30	11
20	Samantha KERR	KERR	Samantha May	KERR	10.09.1993	FW	Perth Glory SC (AUS)	167	37	7
21	Mackenzie ARNOLD	ARNOLD	Mackenzie Elizabeth	ARNOLD	25.02.1994	GK	Perth Glory SC (AUS)	179	7	0
22	Nicola BOLGER	BOLGER	Nicola Marie	BOLGER	03.03.1993	MF	SydNey FC (AUS)	160	6	0
23	Michelle HEYMAN	HEYMAN	Michelle Pearl	HEYMAN	04.07.1988	FW	CaNberra UNited (AUS)	180	35	15

Coach: Alen STAJCIC (AUS)



## List of Players

## Brazil



#	FIFA Display Name	Last Name	First Name	Shirt Name	DOB	POS	Club	Height	Caps	Goals
1	LUCIANA	MARIA DIONIZIO	Luciana	LUCIANA	24.07.1987	GK	Ferroviana (BRA)	173	33	0
2	FABIANA	DA SILVA SIMOES	Fabiana	FABIANA	04.08.1989	DF	CeNtro Olimpico (BRA)	163	56	6
3	MONICA	HICKMANN ALVES	Monica	MÔNICA	21.04.1987	DF	Ferroviana (BRA)	172	21	0
4	RAFAELA	DE MIRANDA TRAVALAO	Rafaela	RAFAELA	18.08.1988	FW	BostoN Breakers (USA)	156	0	0
5	ANDRESSA	CAVALARI MACHRY	Andressa	ANDRESSA	01.05.1995	MF	KiNdermaNN (BRA)	161	17	7
6	TAMIRES	DIAS GOMES	Tamires Cassia	TAMIRES	10.10.1987	DF	CeNtro Olimpico (BRA)	161	31	3
7	BEATRIZ	ZANERATTO JOAO	Beatriz	BEATRIZ	17.12.1993	MF	HyuNdaei Steel Red ANGels (KOR)	174	16	1
8	THAISA	DE MORAES ROSA MORENO	Thaïsa	THAISA	17.12.1988	MF	Ferroviana (BRA)	166	26	2
9	ANDRESSA ALVES	ALVES DA SILVA	Andressa	A.ALVES	10.11.1992	MF	Sao Jose (BRA)	168	36	9
10	MARTA	VIEIRA DA SILVA	Marta	MARTA	19.02.1986	MF	FC RoseNgard (SWE)	162	92	91
11	CRISTIANE	ROZEIRA DE SOUZA SILVA	Cristiane	CRISTIANE	15.05.1985	FW	CeNtro Olimpico (BRA)	170	106	75
12	BARBARA	DO MONTE BARBOSA	Barbara Micheline	BARBARA	04.07.1988	GK	KiNdermaNN (BRA)	171	25	0
13	POLIANA	BARBOSA MEDEIROS	Poliana	POLIANA	06.02.1991	DF	Sao Jose (BRA)	174	32	2
14	GESSICA	DO NASCIMENTO	Gessica	GESSICA	19.03.1991	DF	Ferroviana (BRA)	165	0	0
15	TAYLA	PEREIRA DOS SANTOS	Tayla Carolina	TAYLA	09.05.1992	DF	Ferroviana (BRA)	174	31	1
16	RAFAELLE	LEONE CARVALHO SOUZA	Rafaelle	RAFAELLE	18.06.1991	DF	Sao FraNcisco (BRA)	176	4	0
17	ROSANA	DOS SANTOS AUGUSTO	Rosana	ROSANA	07.07.1982	MF	Sao Jose (BRA)	171	111	21
18	RAQUEL FERNANDES	FERNANDES DOS SANTOS	Raquel	FERNANDES	21.03.1991	MF	Ferroviana (BRA)	160	18	3
19	MAURINE	DORNELES GONÇALVES	Maurine	MAURINE	14.01.1986	MF	Ferroviana (BRA)	160	56	7
20	FORMIGA	MACIEL MOTA	Miraildes	FORMIGA	03.03.1978	MF	Sao Jose (BRA)	162	135	19
21	GABRIELA	ZANOTTI DEMONER	Gabriela Maria	GABI	28.02.1985	MF	CeNtro Olimpico (BRA)	171	20	2
22	DARLENE	DE SOUZA REGUERA	Darlene	DARLENE	11.01.1990	MF	CeNtro Olimpico (BRA)	172	31	4
23	LETICIA	IZIDORO LIMA DA SILVA	Letícia	LETICIA	13.08.1994	GK	Sao Jose (BRA)	175	0	0

Coach: VADAO (BRA)

## List of Players

## Cameroon



#	FIFA Display Name	Last Name	First Name	Shirt Name	DOB	POS	Club	Height	Caps	Goals
1	Annette NGO NDOM	NGO NDOM	Annette Flore	N. NDOM	02.06.1985	GK	FC UNioN NovE ZAmky (SVK)	171	40	0
2	Christine MANIE	MANIE	Christine Patiance	MANIE	04.05.1984	DF	CFF Olimpia Cluj (ROU)	160	59	9
3	Ajara NCHOUT	NCHOUT NJOYA	Ajara	NCHOUT	12.01.1993	FW	WesterN New York Flash (USA)	164	39	2
4	Yvonne LEUKO	LEUKO CHIBOSSO	Yvonne Patrice	LEUKO	20.11.1991	DF	Arras FCF (FRA)	163	23	0
5	Augustine EJANGUE	EJANGUE SILIKI	Augustine Sylvia	EJANGUE	19.01.1989	DF	ENergiya VoroNezh (RUS)	158	56	0
6	Francine ZOUGA	ZOUGA EDOA	Francine Estelle	ZOUGA FRANCINE	09.11.1987	FW	FF CheNois (SUI)	157	52	5
7	Gabrielle ONGUENE	ABOUDI ONGUENE	Gabrielle	ABOUDI ONGUENE	25.02.1989	FW	Louves MiNproff (CMR)	153	49	13
8	Raissa FEUDJIO	FEUDJIO TCHUANYO	Raissa	FEUDJIO	29.10.1995	MF	Louves MiNproff (CMR)	162	40	1
9	Madeleine NGONO MANI	NGONO MANI	Madeleine Michele	NGONO MANI	16.10.1983	FW	Claix Football (FRA)	160	72	38
10	Jeannette YANGO	NGOCK YANGO	Jeannette Grace	YANGO	12.06.1993	FW	FF Yzeure Allier AuvergNe (FRA)	159	31	1
11	Aurette AWONA	AWONA	Marie Aurette	AWONA	02.02.1993	DF	Soyaux (FRA)	171	2	0
12	Claudine MEFFOMETOU TCHENO	MEFFOMETOU TCHENO	Claudine Falonne	F. TCHENO	01.07.1990	DF	Zvezda 2005 Perm (RUS)	163	21	1
13	Cathy BOU NDJOUH	BOU NDJOUH	Cathy	CATHY	07.11.1987	DF	FC MiNsk (BLR)	171	52	0
14	Ninon ABENA	ABENA	Therese Ninon	ABENA	05.09.1994	MF	Louves MiNproff (CMR)	168	3	0
15	Ysis SONKENG	SONKENG	Ysis Amariele	SONKENG	20.09.1989	DF	Louves MiNproff (CMR)	165	42	0
16	Thecle MBORORO	MBORORO	Thecle	MBORORO	24.09.1989	GK	PaNthEre Security (CMR)	170	5	0
17	Gaelle ENGANAMOUIT	ENGANAMOUIT	Gaelle Deborah	ENGANAMOUIT	09.06.1992	FW	EskilstuNa UNited DFF (SWE)	171	39	2
18	Henriette AKABA	AKABA EDOA	Henriette Michele	AKABA	07.06.1992	FW	Louves MiNproff (CMR)	160	31	0
19	Agathe NGANI	NGANI	Agathe Georgette	A. NGANI	26.05.1992	MF	Louves MiNproff (CMR)	174	3	0
20	Genevieve NGO MBELECK	NGO MBELECK	Genevieve Edith	NGO MBELECK	10.03.1993	MF	CaimaN de Douala (CMR)	159	6	0
21	Rose BELLA	BELLA	Rose	R. BELLA	05.05.1994	FW	AS Police (CMR)	168	7	0
22	Wanki AWACHWI	AWACHWI	Rita Wanki	WANKI	06.01.1994	DF	Locomotive de YaouNde (CMR)	155	5	0
23	Flore ENYEGUE	ENYEGUE	Regine Flore	ENYEGUE FLORE	09.07.1991	GK	AS Police (CMR)	181	9	0

Coach: Enow NGACHU (CMR)

# List of Players

## Canada



#	FIFA Display Name	Last Name	First Name	Shirt Name	DOB	POS	Club	Height	Caps	Goals
1	Erin McLEOD	MC LEOD	Erin Katrina	MCLEOD	26.02.1983	GK	HoustoN Dash (USA)	174	106	0
2	Emily ZURRER	ZURRER	Emily Jane	ZURRER	12.07.1987	DF	Jitex BK (SWE)	178	82	3
3	Kadeisha BUCHANAN	BUCHANAN	Kadeisha	BUCHANAN	05.11.1995	DF	West VirginiA UNiv. (USA)	170	36	2
4	Carmelina MOSCATO	MOSCATO	Carmelina	MOSCATO	02.05.1984	DF	No club affiliatioN	171	92	2
5	Robyn GAYLE	GAYLE	Robyn Krista	GAYLE	31.10.1985	DF	No club affiliatioN	168	81	2
6	Kaylyn KYLE	KYLE	Kaylyn Mckenzie	KYLE	06.10.1988	MF	PortlanD ThorNs FC (USA)	173	97	6
7	Rhian WILKINSON	WILKINSON	Rhian Emilie	WILKINSON	12.05.1982	DF	PortlanD ThorNs FC (USA)	166	163	7
8	Diana MATHESON	MATHESON	Diana Beverly	MATHESON	06.04.1984	MF	WashiNgtoN Spirit (USA)	153	166	15
9	Josee BELANGER	BELANGER	Josee	BELANGER	14.05.1986	FW	No club affiliatioN	163	31	5
10	Lauren SESSELMANN	SESSELMANN	Lauren Marie	SESSELMANN	14.08.1983	DF	HoustoN Dash (USA)	173	41	0
11	Desiree SCOTT	SCOTT	Desiree Rose Marie	SCOTT	31.07.1987	MF	Notts CouNty LFC (ENG)	160	91	0
12	Christine SINCLAIR	SINCLAIR	Christine Margaret	SINCLAIR	12.06.1983	FW	PortlanD ThorNs FC (USA)	176	224	154
13	Sophie SCHMIDT	SCHMIDT	Sophie Diana	SCHMIDT	28.06.1988	MF	No club affiliatioN	172	133	16
14	Melissa TANCREDI	TANCREDI	Melissa Palma Julie	TANCREDI	27.12.1981	FW	Chicago Red Stars (USA)	177	101	22
15	Allysha CHAPMAN	CHAPMAN	Allysha Lyn	CHAPMAN	25.01.1989	DF	HoustoN Dash (USA)	160	13	1
16	Jonelle FILIGNO	FILIGNO	Jonelle	FILIGNO	24.09.1990	FW	Sky Blue (USA)	168	69	11
17	Jessie FLEMING	FLEMING	Jessie Alexandra	FLEMING	11.03.1998	MF	LoNdoN NorWest SC (CAN)	161	17	1
18	Selenia IACCHELLI	IACCHELLI	Selenia	IACCHELLI	05.06.1986	MF	No club affiliatioN	173	4	0
19	Adriana LEON	LEON	Adriana Kristina	LEON	02.10.1992	FW	Chicago Red Stars (USA)	160	35	5
20	Marie-Eve NAULT	NAULT	Marie-Eve	NAULT	16.02.1982	DF	No club affiliatioN	169	67	0
21	Stephanie LABBE	LABBE	Stephanie Lynn Marie	LABBE	10.10.1986	GK	No club affiliatioN	178	20	0
22	Ashley LAWRENCE	LAWRENCE	Ashley Elizabeth	LAWRENCE	11.06.1995	MF	West VirginiA UNiv. (USA)	164	19	0
23	Karina LeBLANC	LEBLANC	Karina Chenelle	LEBLANC	30.03.1980	GK	Chicago Red Stars (USA)	173	110	0

Coach: John HERDMAN (ENG)

## List of Players

China PR



#	FIFA Display Name	Last Name	First Name	Shirt Name	DOB	POS	Club	Height	Caps	Goals
1	ZHANG Yue	ZHANG	Yue	ZHANG Y	30.09.1990	GK	BeijiNg CheNgjiaN (CHN)	185	48	0
2	LIU Shanshan	LIU	Shanshan	LIU SH SH	16.03.1992	DF	Hebei (CHN)	168	34	0
3	PANG Fengyue	PANG	Fengyue	PANG F Y	19.01.1989	MF	DaliaN Shide (CHN)	165	50	7
4	LI Jiayue	LI	Jiayue	LI J Y	08.06.1990	DF	ShaNghai WomeN (CHN)	170	45	1
5	WU Haiyan	WU	Haiyan	WU H Y	26.02.1993	DF	ShaNdoNg HuaNgmiNg (CHN)	166	51	0
6	LI Dongna	LI	Dongna	LI D N	06.12.1988	DF	SuwoN FMC (KOR)	175	51	5
7	XU Yanlu	XU	Yanlu	XU Y L	16.09.1991	MF	JiaNgsu Huatai (CHN)	158	27	3
8	MA Jun	MA	Jun	MA J	06.03.1989	MF	DaejeoN Sportstoto WFC (KOR)	173	51	15
9	WANG Shanshan	WANG	Shanshan	WANG SH SH	27.01.1990	DF	TiaNjiN HuiseN (CHN)	168	42	0
10	LI Ying	LI	Ying	LI Y	07.01.1993	FW	ShaNdoNg HuaNgmiNg (CHN)	172	9	2
11	WANG Shuang	WANG	Shuang	WANG SH	23.01.1995	MF	WuhaN JiaNgda UNiv. (CHN)	162	11	1
12	WANG Fei	WANG	Fei	WANG F	22.03.1990	GK	1. FFC TurbiNe Potsdam (GER)	179	53	0
13	TANG Jiali	TANG	Jiali	TANG J L	16.03.1995	MF	ShaNghai WomeN (CHN)	166	10	2
14	ZHAO Rong	ZHAO	Rong	ZHAO R	02.08.1991	FW	BeijiNg Baxy (CHN)	168	15	0
15	LEI Jiahui	LEI	Jiahui	LEI J H	22.09.1995	MF	HeNaN Steel (CHN)	169	6	0
16	LOU Jiahui	LOU	Jiahui	LOU J H	26.05.1991	FW	HeNaN JiaNye FC (CHN)	164	45	1
17	GU Yasha	GU	Yasha	GU YS	28.11.1990	FW	BeijiNg CheNgjiaN (CHN)	160	88	10
18	HAN Peng	HAN	Peng	HAN P	20.12.1989	MF	TiaNjiN HuiseN (CHN)	165	53	3
19	TAN Ruyin	TAN	Ruyin	TAN R Y	17.07.1994	MF	GuaNgdoNg FC (CHN)	167	9	0
20	ZHANG Rui	ZHANG	Rui	ZHANG R	17.01.1989	MF	Army Club (CHN)	172	61	11
21	WANG Lisi	WANG	Lisi	WANG L S	28.11.1991	MF	JiaNgsu Huatai (CHN)	162	46	5
22	ZHAO Lina	ZHAO	Lina	ZHAO L N	18.09.1991	GK	ShaNghai WomeN (CHN)	182	0	0
23	REN Guixin	REN	Guixin	REN G X	19.12.1988	MF	ChaNgchuN Zhuoyue (CHN)	162	46	5

Coach: HAO Wei (CHN)

## List of Players

## Colombia



#	FIFA Display Name	Last Name	First Name	Shirt Name	DOB	POS	Club	Height	Caps	Goals
1	Stefany CASTANO	CASTAÑO CARDOSO	Derly Stefany	CASTAÑO	11.01.1994	GK	GracelaNd UNiv. (USA)	172	7	0
2	Carolina ARBELAEZ	ARBELAEZ CASTAÑO	Carolina	ARBELAEZ	08.03.1995	MF	Formas INtimas MedellIN (COL)	165	1	0
3	Natalia GAITAN	GAITAN LAGUADO	Natalia	GAITAN	03.04.1991	MF	CD Gol Star (COL)	164	35	4
4	Diana OSPINA	OSPINA GARCIA	Diana Carolina	OSPINA	03.03.1989	MF	Formas INtimas MedellIN (COL)	165	29	3
5	Lina GRANADOS	GRANADOS REYES	Lina Paola	GRANADOS	19.05.1994	DF	AbileNe ChristiaN UNiv. (USA)	168	0	0
6	Daniela MONTOYA	MONTOYA QUIROZ	Daniela	MONTOYA	22.08.1990	MF	Formas INtimas MedellIN (COL)	162	32	2
7	Ingrid VIDAL	VIDAL ISAZA	Ingrid Julieth	VIDAL	22.04.1991	FW	GeNeracioNes PalmiraNas (COL)	159	50	11
8	Mildrey PINEDA	PINEDA ECHEVERRI	Mildrey Carolina	PINEDA	01.10.1989	MF	GeNeracioNes PalmiraNas (COL)	166	25	2
9	Orianica VELASQUEZ	VELASQUEZ HERRERA	Orianica	VELASQUEZ	01.08.1989	MF	CD Gol Star (COL)	172	37	2
10	Yoreli RINCON	RINCON TORRES	Hazleydi Yorely	RINCON	27.07.1993	MF	ASD Torres (ITA)	168	45	9
11	Catalina USME	USME PINEDA	Maria Catalina	USME	25.12.1989	MF	Formas INtimas MedellIN (COL)	168	40	19
12	Sandra SEPULVEDA	SEPULVEDA LOPERA	Sandra Milena	SEPULVEDA	03.03.1988	GK	Formas INtimas MedellIN (COL)	167	37	0
13	Angela CLAVIJO	CLAVIJO SILVA	Angela Corina	CLAVIJO	01.09.1993	MF	Club Kamatsa FC (COL)	165	15	0
14	Nataly ARIAS	ARIAS PEÑA	Katherine Nataly	N.ARIAS	02.04.1986	MF	AtlaNta Silverbacks (USA)	172	43	6
15	Tatiana ARIZA	ARIZA DIAZ	Tatiana	ARIZA	21.02.1991	FW	CD Gol Star (COL)	165	35	8
16	Lady ANDRADE	ANDRADE RODRIGUEZ	Lady Patricia	ANDRADE	10.01.1992	FW	GeNeracioNes PalmiraNas (COL)	164	41	7
17	Carolina ARIAS	ARIAS VIDAL	Carolina	C.ARIAS	02.09.1990	MF	GeNeracioNes PalmiraNas (COL)	162	38	0
18	Yisela CUESTA	CUESTA BEJARANO	Yisela	CUESTA	27.09.1991	FW	Formas INtimas MedellIN (COL)	168	4	1
19	Leicy SANTOS	SANTOS HERRERA	Leicy Maria	SANTOS	16.05.1996	MF	Besser FC (COL)	160	13	2
20	Laura COSME	COSME RODRIGUEZ	Laura Marcela	COSME	05.03.1992	FW	GeNeracioNes PalmiraNas (COL)	164	5	1
21	Isabella ECHEVERRI	ECHEVERRI RESTREPO	Isabella	ECHEVERRI	16.06.1994	MF	UNiv. Toledo (USA)	174	14	1
22	Catalina PEREZ	PEREZ JARAMILLO	Catalina	PEREZ	08.11.1994	GK	UNiv. Miami (USA)	173	4	0
23	Manuela GONZALEZ	GONZALEZ MENDOZA	Manuela Alexandra	GONZALEZ	29.08.1995	FW	GeNeracioNes PalmiraNas (COL)	167	1	0

Coach: Fabian TABORDA (COL)

# List of Players

## Costa Rica



#	FIFA Display Name	Last Name	First Name	Shirt Name	DOB	POS	Club	Height	Caps	Goals
1	Dinnia DIAZ	DIAZ ARTAVIA	Dinnia Cecilia	DIAZ D.	14.01.1988	GK	UD Moravia (CRC)	170	21	0
2	Gabriela GUILLEN	GUILLEN ALVAREZ	Gabriela	GUILLEN G.	01.03.1992	DF	Deportivo Saprissa (CRC)	156	10	0
3	Emilie VALENCIANO	VALENCIANO ROJAS	Emilie Vanessa	VALENCIANO E.	15.02.1997	DF	UCEM Alajuela (CRC)	163	4	0
4	Mariana BENAVIDES	BENAVIDES ARGUEDAS	Mariana de los Angeles	BENAVIDES M.	26.12.1994	DF	CS HerediaNo (CRC)	166	12	4
5	Diana SAENZ	SAENZ BROWN	Diana Carolina	SAENZ D.	15.04.1989	DF	UNiv. South Florida (USA)	151	48	0
6	Carol SANCHEZ	SANCHEZ CRUZ	Carol	SANCHEZ C.	16.04.1986	DF	UD Moravia (CRC)	169	33	2
7	Melissa HERRERA	HERRERA MONGE	Daphne Melissa	HERRERA D.	10.10.1996	FW	Deportivo Saprissa (CRC)	159	20	12
8	Daniela CRUZ	CRUZ MEJIA	Daniela Maria	CRUZ D.	08.03.1991	DF	Deportivo Saprissa (CRC)	161	33	6
9	Carolina VENEGAS	VENEGAS MORALES	Carolina Paola	VENEGAS C.	28.09.1991	FW	Deportivo Saprissa (CRC)	166	35	15
10	Shirley CRUZ	CRUZ TRAÑA	Shirley	CRUZ S.	28.08.1985	MF	Paris SaiNt-GermaiN FC (FRA)	165	60	21
11	Raquel RODRIGUEZ CEDENO	RODRIGUEZ CEDENO	Raquel	RODRIGUEZ R.	28.10.1993	FW	PeNN State UNiv. (USA)	166	37	24
12	Lixy RODRIGUEZ	RODRIGUEZ ZAMORA	Lixy	RODRIGUEZ L.	04.11.1990	DF	UCEM Alajuela (CRC)	152	47	2
13	Noelia BERMUDEZ	BERMUDEZ VALVERDE	María Noelia	BERMUDEZ N.	20.09.1994	GK	Deportivo Saprissa (CRC)	174	1	0
14	María BARRANTES	BARRANTES ROJAS	María Fernanda	BARRANTES M.	12.04.1989	FW	UD Moravia (CRC)	158	20	21
15	Cristin GRANADOS	GRANADOS GOMEZ	Cristin Yorleny	GRANADOS C.	19.08.1989	MF	Deportivo Saprissa (CRC)	163	53	10
16	Katherine ALVARADO	ALVARADO AGUILAR	Katherine Maria	ALVARADO K.	11.04.1991	MF	Deportivo Saprissa (CRC)	164	47	18
17	Karla VILLALOBOS	VILLALOBOS DURAN	Karla Gabriela	VILLALOBOS K.	16.07.1986	FW	CS HerediaNo (CRC)	159	6	3
18	Yirlania ARROYO	ARROYO FONSECA	Yirlania	ARROYO Y.	28.05.1986	GK	Sky Blue (USA)	168	40	0
19	Fabiola SANCHEZ	SANCHEZ JIMENEZ	Fabiola Maria	SANCHEZ F.	09.04.1993	DF	MartiN Methodist College (USA)	166	10	3
20	Wendy ACOSTA	ACOSTA SALAS	Wendy Patricia	ACOSTA W.	19.12.1989	FW	UD Moravia (CRC)	164	38	18
21	Adriana VENEGAS	VENEGAS MORALES	Adriana Pamela	VENEGAS A.	12.06.1989	FW	CS HerediaNo (CRC)	174	10	5
22	María COTO	COTO GONZALEZ	María Paula	COTO M.	02.03.1998	DF	UCEM Alajuela (CRC)	166	3	0
23	Gloriana VILLALOBOS	VILLALOBOS VEGA	Gloriana Jesus	VILLALOBOS G.	20.08.1999	MF	Deportivo Saprissa (CRC)	163	12	2

Coach: Amelia VALVERDE (CRC)



# List of Players

## Côte d'Ivoire



#	FIFA Display Name	Last Name	First Name	Shirt Name	DOB	POS	Club	Height	Caps	Goals
1	Lydie SAKI	SAKI	Abié Lydie	SAKI LYDIE	22.12.1984	GK	JuveNtus de YopougoN (CIV)	164	27	0
2	Fatou COULIBALY	COULIBALY	Tiegnou Valle Fatou	C.FATOU	13.02.1987	DF	JuveNtus de YopougoN (CIV)	172	32	1
3	Djelika COULIBALY	COULIBALY	Djelika	DJELIKA	22.02.1984	DF	JuveNtus de YopougoN (CIV)	170	29	0
4	Nina KPAHO	KPAHO	Zote Nina	KPAHO NINA	30.12.1996	DF	JuveNtus de YopougoN (CIV)	163	13	0
5	Mariam DIAKITE	DIAKITE	Mariam	DIAKITE M.	11.04.1995	DF	ES d'Abobo (CIV)	169	12	0
6	Rita AKAFFOU	AKAFFOU	Leyo Josephine Rita	A.RITA	05.12.1986	MF	JuveNtus de YopougoN (CIV)	166	34	4
7	Nadege ESSOH	ESSOH	Jeanne Nadege	ESSOH NADEGE	05.05.1990	FW	JuveNtus de YopougoN (CIV)	165	30	4
8	Ines NREHY	NREHY	Tia Viho Ines	INES TIA	01.10.1993	FW	WFC RossiyaNka (RUS)	167	18	13
9	Sandrine NIAMIEN	NIAMIEN	Adjoua Edwige Sandrine	N.SANDRINE	30.08.1994	FW	ES d'Abobo (CIV)	170	2	1
10	Ange NGUESSAN	N'GUESSAN	Koko Ange Mariette Christelle	N.ANGE	18.11.1990	FW	OmNess de Dabou (CIV)	140	20	3
11	Rebecca ELLOH	ELLOH	Amon Rebecca Grace	ELLOH R.	25.12.1994	FW	ONze Soeurs de GagNoa (CIV)	160	16	2
12	Ida GUEHAI	GUEHAI	Ida Rebecca	G.IDA	15.07.1994	MF	KristiaNstads DFF (SWE)	164	23	1
13	Fernande TCHETCHE	TCHETCHE	Noukeu Fernande	TCHETCHE	20.06.1988	DF	OmNess de Dabou (CIV)	157	20	0
14	Josee NAHI	NAHI	Estelle Marie Josee	NAHI JOSEE	29.05.1989	FW	Zvezda 2005 Perm (RUS)	171	19	12
15	Christine LOHOUES	LOHOUES	Yeble Christine	L.CHRISTINE	18.10.1992	MF	ONze Soeurs de GagNoa (CIV)	158	22	1
16	Dominique THIAMALE	THIAMALE	Ange Marie Dominique	THIAMALE D.	20.05.1982	GK	OmNess de Dabou (CIV)	169	28	0
17	Nadege CISSE	CISSE	Nadege	CISSE NADEGE	04.04.1997	FW	ES d'Abobo (CIV)	177	6	0
18	Binta DIAKITE	DIAKITE	Binta	DIAKITE BINTA	07.05.1988	MF	ASF MedeNiNe (TUN)	160	21	2
19	Jessica ABY	ABY	Jessica Romuald Emmanuella	ABY JESSICA	16.06.1998	MF	ONze Soeurs de GagNoa (CIV)	162	1	0
20	Aminata HAIDARA	HAIDARA	Aminata	HAIDARA A.	13.05.1997	MF	ONze Soeurs de GagNoa (CIV)	175	4	0
21	Sophie AGUIE	AGUIE	Sophie Nadege	AGUIE SOPHIE	31.12.1996	DF	OmNess de Dabou (CIV)	167	5	0
22	Raymonde KACOU	KACOU	Koffi Amenan Raymonde	K.RAYMONDE	07.01.1987	DF	JuveNtus de YopougoN (CIV)	164	7	0
23	Cynthia DJOHORE	DJOHORE	Cynthia	D.CYNTHIA	16.12.1987	GK	ONze Soeurs de GagNoa (CIV)	182	27	0

Coach: Clementine TOURE (CIV)

## List of Players

## Ecuador



#	FIFA Display Name	Last Name	First Name	Shirt Name	DOB	POS	Club	Height	Caps	Goals
1	Shirley BERRUZ	BERRUZ AGUILAR	Shirley Viviana	BERRUZ	06.01.1991	GK	Rocafuerte (ECU)	169	25	0
2	Katherine ORTIZ	ORTIZ SIMISTERRA	Katherine Solange	ORTIZ	16.02.1991	DF	Rocafuerte (ECU)	166	23	3
3	Nancy AGUILAR	AGUILAR MURILLO	Nancy Lorena	AGUILAR	06.07.1985	DF	7 de Febrero (ECU)	164	46	0
4	Merly ZAMBRANO	ZAMBRANO MENDOZA	Merly Cristina	ZAMBRANO	07.12.1981	DF	Espuce (ECU)	164	11	0
5	Mayra OLVERA	OLVERA REYES	Mayra Fabiola	OLVERA	22.08.1992	MF	7 de Febrero (ECU)	168	33	2
6	Angie PONCE	PONCE BAQUE	Angie Paola	PONCE	14.07.1996	DF	Talleres EmaNuel (ECU)	153	28	4
7	Ingrid RODRIGUEZ	RODRIGUEZ ALVARADO	Ingrid Roxana	RODRIGUEZ	24.11.1991	DF	UNION EspaNola (ECU)	158	34	6
8	Erika VASQUEZ	VASQUEZ VALENCIA	Erika Paola	VASQUEZ	04.08.1992	MF	UNION EspaNola (ECU)	162	32	3
9	Giannina LATTANZIO	LATTANZIO FLORES	Giannina Maria	LATTANZIO	19.05.1993	FW	7 de Febrero (ECU)	166	13	0
10	Ambar TORRES	TORRES LAZ	Ambar Gillians	TORRES	21.12.1994	FW	Talleres EmaNuel (ECU)	160	23	10
11	Monica QUINTEROS	QUINTEROS CABEZA	Monica Rebeca	QUINTEROS	05.07.1988	FW	7 de Febrero (ECU)	162	42	8
12	Irene TOBAR	TOBAR MERA	Irene Lissette	TOBAR	05.05.1989	GK	7 de Febrero (ECU)	166	10	0
13	Madelin RIERA	RIERA BAJANA	Madelin Stefania	RIERA	07.08.1989	MF	UNION EspaNola (ECU)	160	32	0
14	Carina CAICEDO	CAICEDO CAICEDO	Carina Elizabeth	CAICEDO	23.07.1987	FW	Quito FC (ECU)	167	8	1
15	Ana PALACIOS	PALACIOS MENDOZA	Ana Valeria	PALACIOS	16.02.1991	MF	Rocafuerte (ECU)	156	30	0
16	Ligia MOREIRA	MOREIRA BURGOS	Ligia Elena	MOREIRA	19.03.1992	DF	7 de Febrero (ECU)	166	44	3
17	Alexandra SALVADOR	SALVADOR DUTHIE	Alexandra Lucia Jean	SALVADOR	11.08.1995	MF	SaN FraNcisco (ECU)	157	13	0
18	Adriana BARRE	BARRE CUSME	Adriana Margarita	BARRE	04.04.1995	MF	GalApagos SC (ECU)	153	23	0
19	Kerly REAL	REAL CARRANZA	Kerly Lizeth	REAL	07.11.1998	MF	Espuce (ECU)	163	24	2
20	Denise PESANTES	PESANTES TENORIO	Denise Andrea	PESANTES	14.01.1988	FW	GalApagos SC (ECU)	160	32	3
21	Mabel VELARDE	VELARDE COBA	Mabel	VELARDE	04.12.1988	MF	Quito FC (ECU)	158	13	0
22	Andrea VERA	VERA CORAL	Andrea Carolina	VERA	10.04.1993	GK	SaN FraNcisco (ECU)	170	5	0
23	Mariela JACOME	JACOME RILEY	Mariela Amina	JACOME	06.03.1996	FW	SaN FraNcisco (ECU)	168	1	0

Coach: Vanessa ARAUZ (ECU)



# List of Players

## England



#	FIFA Display Name	Last Name	First Name	Shirt Name	DOB	POS	Club	Height	Caps	Goals
1	Karen BARDSLEY	BARDSLEY	Karen Louise	BARDSLEY	14.10.1984	GK	MaNchester City WFC (ENG)	182	44	0
2	Alex SCOTT	SCOTT	Alexandra Virina	A.SCOTT	14.10.1984	DF	ArseNal LFC (ENG)	163	123	12
3	Claire RAFFERTY	RAFFERTY	Claire Lauren	RAFFERTY	11.01.1989	DF	Chelsea LFC (ENG)	164	10	0
4	Fara WILLIAMS	MERRETT	Fara Tanya Franki	WILLIAMS	25.01.1984	MF	Liverpool LFC (ENG)	164	140	37
5	Steph HOUGHTON	HOUGHTON	Stephanie Jayne	HOUGHTON	23.04.1988	DF	MaNchester City WFC (ENG)	174	54	7
6	Laura BASSETT	BASSETT	Laura	BASSETT	02.08.1983	DF	Notts CouNty LFC (ENG)	165	49	2
7	Jordan NOBBS	NOBBS	Jordan	NOBBS	08.12.1992	MF	ArseNal LFC (ENG)	159	21	3
8	Jill SCOTT	SCOTT	Jill Louise	J.SCOTT	02.02.1987	MF	MaNchester City WFC (ENG)	181	91	13
9	Eniola ALUKO	ALUKO	Eniola	ALUKO	21.02.1987	FW	Chelsea LFC (ENG)	159	91	32
10	Karen CARNEY	CARNEY	Karen Julia	CARNEY	01.08.1987	MF	BirmiNgham City LFC (ENG)	162	104	23
11	Jade MOORE	MOORE	Jade Ellis	MOORE	22.10.1990	MF	BirmiNgham City LFC (ENG)	166	17	1
12	Lucy BRONZE	BRONZE	Lucia Roberta Tough	BRONZE	28.10.1991	DF	MaNchester City WFC (ENG)	172	17	2
13	Siobhan CHAMBERLAIN	CHAMBERLAIN	Siobhan Rebecca	CHAMBERLAIN	15.08.1983	GK	ArseNal LFC (ENG)	180	33	0
14	Alex GREENWOOD	GREENWOOD	Alex	GREENWOOD	07.09.1993	DF	Notts CouNty LFC (ENG)	168	13	1
15	Casey STONEY	STONE	Casey Jean	STONE	13.05.1982	DF	ArseNal LFC (ENG)	174	119	6
16	Katie CHAPMAN	CHAPMAN	Katie Sarah	CHAPMAN	15.06.1982	MF	Chelsea LFC (ENG)	171	86	8
17	Jo POTTER	POTTER	Josanne	POTTER	13.11.1984	MF	BirmiNgham City LFC (ENG)	174	19	2
18	Toni DUGGAN	DUGGAN	Toni	DUGGAN	25.07.1991	FW	MaNchester City WFC (ENG)	168	26	14
19	Jodie TAYLOR	TAYLOR	Jodie Lee	TAYLOR	17.05.1986	FW	PortlaNd ThorNs FC (USA)	168	8	4
20	Lianne SANDERSON	SANDERSON	Lianne Joan	SANDERSON	03.02.1988	FW	ArseNal LFC (ENG)	172	47	15
21	Carly TELFORD	TELFORD	Carly Mitchell	TELFORD	07.07.1987	GK	Notts CouNty LFC (ENG)	174	6	0
22	Fran KIRBY	KIRBY	Francesca	KIRBY	29.06.1993	FW	ReadiNg FCW (ENG)	157	9	2
23	Ellen WHITE	WHITE	Ellen Toni	WHITE	09.05.1989	FW	Notts CouNty LFC (ENG)	170	51	17

Coach: Mark SAMPSON (WAL)

## List of Players

## France



#	FIFA Display Name	Last Name	First Name	Shirt Name	DOB	POS	Club	Height	Caps	Goals
1	Celine DEVILLE	DEVILLE	Céline Nadine Sabine	DEVILLE	24.01.1982	GK	FCF Juvisy (FRA)	173	65	0
2	Wendie RENARD	RENARD	Wendie Thérèse	RENARD	20.07.1990	DF	Olympique LyoNNais (FRA)	187	66	16
3	Laure BOULLEAU	BOULLEAU	Laure Pascale Claire	BOULLEAU	22.10.1986	DF	Paris SaiNt-GermaiN FC (FRA)	160	58	0
4	Laura GEORGES	GEORGES	Laura Stéphanie	GEORGES	20.08.1984	DF	Paris SaiNt-GermaiN FC (FRA)	172	159	6
5	Sabrina DELANNOY	DELANNOY	Sabrina Julienne Francine	DELANNOY	18.05.1986	DF	Paris SaiNt-GermaiN FC (FRA)	171	25	2
6	Amandine HENRY	HENRY	Amandine Chantal	HENRY	28.09.1989	MF	Olympique LyoNNais (FRA)	171	40	3
7	Kenza DALI	DALI	Kenza	DALI	31.07.1991	MF	Paris SaiNt-GermaiN FC (FRA)	165	12	2
8	Jessica HOUARA	HOUARA D'HOMMEAUX	Jessica Lucetta Léone	HOUARA D'H	29.09.1987	DF	Paris SaiNt-GermaiN FC (FRA)	161	33	1
9	Eugenie LE SOMMER	LE SOMMER	Eugénie Anne Claudine	LE SOMMER	18.05.1989	FW	Olympique LyoNNais (FRA)	161	105	44
10	Camille ABILY	ABILY	Camille Anne Françoise	ABILY	05.12.1984	MF	Olympique LyoNNais (FRA)	168	146	29
11	Claire LAVOGEZ	LAVOGEZ	Claire Marie Annie	LAVOGEZ	18.06.1994	MF	MoNtpellier HSC (FRA)	173	10	1
12	Elodie THOMIS	THOMIS	Elodie Ginette	THOMIS	13.08.1986	MF	Olympique LyoNNais (FRA)	167	117	31
13	Kadidiatou DIANI	DIANI	Kadidiatou	DIANI	01.04.1995	FW	FCF Juvisy (FRA)	168	6	1
14	Louisa NECIB	NECIB	Louisa	NECIB	23.01.1987	MF	Olympique LyoNNais (FRA)	168	126	32
15	Elise BUSSAGLIA	BUSSAGLIA	Élise	BUSSAGLIA	24.09.1985	MF	Olympique LyoNNais (FRA)	164	144	26
16	Sarah BOUHADDI	BOUHADDI	Sarah	BOUHADDI	17.10.1986	GK	Olympique LyoNNais (FRA)	175	95	0
17	Gaetane THINEY	THINEY	Gaëtane Iza Laure	THINEY	28.10.1985	FW	FCF Juvisy (FRA)	170	122	55
18	Marie Laure DELIE	DELIE	Marie Laure	DELIE	29.01.1988	FW	Paris SaiNt-GermaiN FC (FRA)	172	86	58
19	Griedge MBOCK BATHY	MBOCK BATHY NKA	Griedge Yinda Colette	MBOCK BATHY	26.02.1995	DF	EN AvaNt GuiNgamp (FRA)	172	9	0
20	Annaïg BUTEL	BUTEL	Annaïg Charlotte Thérèse	BUTEL	15.02.1992	DF	FCF Juvisy (FRA)	167	8	0
21	Meline GERARD	GÉRARD	Méline Orlane Christine	GERARD	30.05.1990	GK	Olympique LyoNNais (FRA)	168	1	0
22	Amel MAJRI	MAJRI	Amel	MAJRI	25.01.1993	DF	Olympique LyoNNais (FRA)	164	7	1
23	Kheira HAMRAOUI	HAMRAOUI	Kheira	HAMRAOUI	13.01.1990	MF	Paris SaiNt-GermaiN FC (FRA)	178	16	0

Coach: Philippe BERGEROO (FRA)

## List of Players

## Germany



#	FIFA Display Name	Last Name	First Name	Shirt Name	DOB	POS	Club	Height	Caps	Goals
1	Nadine ANGERER	ANGERER	Nadine Marejke	ANGERER	10.11.1978	GK	PortlanD ThorNs FC (USA)	175	140	0
2	Bianca SCHMIDT	SCHMIDT	Bianca Ursula	SCHMIDT	23.01.1990	DF	1. FFC FraNkfurt (GER)	173	48	3
3	Saskia BARTUSIAK	BARTUSIAK	Saskia	BARTUSIAK	09.09.1982	DF	1. FFC FraNkfurt (GER)	170	81	1
4	Leonie MAIER	MAIER	Leonie Rebekka	MAIER	29.09.1992	DF	FC BayerN MUNcheN (GER)	162	26	3
5	Annikе KRAHN	KRAHN	Annikе Berit	KRAHN	01.07.1985	DF	Paris SaiNt-GermaiN FC (FRA)	173	118	5
6	Simone LAUDEHR	LAUDEHR	Simone Melanie	LAUDEHR	12.07.1986	MF	1. FFC FraNkfurt (GER)	175	89	25
7	Melanie BEHRINGER	BEHRINGER	Melanie	BEHRINGER	18.11.1985	MF	FC BayerN MUNcheN (GER)	172	105	27
8	Pauline BREMER	BREMER	Pauline Marie	BREMER	10.04.1996	FW	1. FFC TurbiNe Potsdam (GER)	170	5	0
9	Lena LOTZEN	LOTZEN	Lena	LOTZEN	11.09.1993	FW	FC BayerN MUNcheN (GER)	171	22	4
10	Dzsenifer MAROZSAN	MAROZSAN	Dzsenifer	MAROZSAN	18.04.1992	MF	1. FFC FraNkfurt (GER)	173	48	25
11	Anja MITTAG	MITTAG	Anja	MITTAG	16.05.1985	FW	FC RoseNgard (SWE)	168	121	36
12	Almuth SCHULT	SCHULT	Almuth	SCHULT	09.02.1991	GK	VfL Wolfsburg (GER)	180	20	0
13	Celia SASIC	ŠAŠIĆ	Célia	SASIC	27.06.1988	FW	1. FFC FraNkfurt (GER)	173	105	60
14	Babett PETER	PETER	Babett	PETER	12.05.1988	DF	VfL Wolfsburg (GER)	171	89	4
15	Jennifer CRAMER	CRAMER	Jennifer	CRAMER	24.02.1993	DF	1. FFC TurbiNe Potsdam (GER)	168	21	0
16	Melanie LEUPOLZ	LEUPOLZ	Melanie	LEUPOLZ	14.04.1994	MF	FC BayerN MUNcheN (GER)	173	29	5
17	Josephine HENNING	HENNING	Josephine	HENNING	08.09.1989	DF	Paris SaiNt-GermaiN FC (FRA)	175	25	0
18	Alexandra POPP	POPP	Alexandra	POPP	06.04.1991	FW	VfL Wolfsburg (GER)	174	55	28
19	Lena PETERMANN	PETERMANN	Lena	PETERMANN	05.02.1994	FW	SC Freiburg (GER)	176	3	0
20	Lena GOESSLING	GOESSLING	Lena	GOESSLING	08.03.1986	MF	VfL Wolfsburg (GER)	171	73	8
21	Laura BENKARTH	BENKARTH	Laura Anna	BENKARTH	14.10.1992	GK	SC Freiburg (GER)	175	0	0
22	Tabea KEMME	KEMME	Tabea	KEMME	14.12.1991	MF	1. FFC TurbiNe Potsdam (GER)	165	14	0
23	Sara DAEBRITZ	DÄBRITZ	Sara Ilonka	DÄBRITZ	15.02.1995	MF	SC Freiburg (GER)	171	17	1

Coach: Silvia NEID (GER)

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## Japan



#	FIFA Display Name	Last Name	First Name	Shirt Name	DOB	POS	Club	Height	Caps	Goals
1	Miho FUKUMOTO	FUKUMOTO	Miho	FUKUMOTO	02.10.1983	GK	Okayama YuNogo Belle (JPN)	165	78	0
2	Yukari KINGA	KINGA	Yukari	KINGA	02.05.1984	DF	INAC Kobe LeoNessa (JPN)	161	96	5
3	Azusa IWASHIMIZU	IWASHIMIZU	Azusa	IWASHIMIZU	14.10.1986	DF	NTV Beleza (JPN)	163	113	11
4	Saki KUMAGAI	KUMAGAI	Saki	KUMAGAI	17.10.1990	DF	Olympique LyoNnais (FRA)	173	67	0
5	Aya SAMESHIMA	SAMESHIMA	Aya	SAMESHIMA	16.06.1987	DF	INAC Kobe LeoNessa (JPN)	163	62	3
6	Mizuho SAKAGUCHI	SAKAGUCHI	Mizuho	SAKAGUCHI	15.10.1987	MF	NTV Beleza (JPN)	165	90	26
7	Kozue ANDO	ANDO	Kozue	ANDO	09.07.1982	MF	1. FFC FraNkfurt (GER)	165	125	19
8	Aya MIYAMA	MIYAMA	Aya	MIYAMA	28.01.1985	MF	Okayama YuNogo Belle (JPN)	157	149	36
9	Nahomi KAWASUMI	KAWASUMI	Nahomi	KAWASUMI	23.09.1985	MF	INAC Kobe LeoNessa (JPN)	157	72	19
10	Homare SAWA	SAWA	Homare	SAWA	06.09.1978	MF	INAC Kobe LeoNessa (JPN)	165	199	83
11	Shinobu OHNO	OHNO	Shinobu	OHNO	23.01.1984	FW	INAC Kobe LeoNessa (JPN)	156	130	39
12	Megumi KAMIONOBE	KAMIONOBE	Megumi	KAMIONOBE	15.03.1986	DF	Albirex Niigata Ladies (JPN)	157	29	2
13	Rumi UTSUGI	UTSUGI	Rumi	UTSUGI	05.12.1988	MF	MoNtpellier HSC (FRA)	168	80	5
14	Asuna TANAKA	TANAKA	Asuna	A.TANAKA	23.04.1988	MF	INAC Kobe LeoNessa (JPN)	164	33	3
15	Yuika SUGASAWA	SUGASAWA	Yuika	SUGASAWA	05.10.1990	FW	JEF UNited Ichihara Chiba Ladies (JPN)	168	30	9
16	Mana IWABUCHI	IWABUCHI	Mana	IWABUCHI	18.03.1993	FW	FC BayerN MUNcheN (GER)	155	25	3
17	Yuki OGIMI	OGIMI	Yuki	OGIMI	15.07.1987	FW	VfL Wolfsburg (GER)	168	117	53
18	Ayumi KAIHORI	KAIHORI	Ayumi	KAIHORI	04.09.1986	GK	INAC Kobe LeoNessa (JPN)	170	48	0
19	Saori ARIYOSHI	ARIYOSHI	Saori	ARIYOSHI	01.11.1987	DF	NTV Beleza (JPN)	159	35	0
20	Yuri KAWAMURA	KAWAMURA	Yuri	KAWAMURA	17.05.1989	DF	Vegalta SeNdai Ladies (JPN)	167	15	2
21	Erina YAMANE	YAMANE	Erina	YAMANE	20.12.1990	GK	JEF UNited Ichihara Chiba Ladies (JPN)	187	15	0
22	Asano NAGASATO	NAGASATO	Asano	NAGASATO	24.01.1989	MF	1. FFC TurbiNe Potsdam (GER)	165	10	1
23	Kana KITAHARA	KITAHARA	Kana	KITAHARA	17.12.1988	DF	Albirex Niigata Ladies (JPN)	173	7	0

Coach: Norio SASAKI (JPN)

# List of Players

## Korea Republic



#	FIFA Display Name	Last Name	First Name	Shirt Name	DOB	POS	Club	Height	Caps	Goals
1	JUN Minkyung	JUN	Minkyung	JUN MINKYUNG	16.01.1985	GK	GoyaNg Daekyo WFC (KOR)	172	45	0
2	LEE Eunmi	LEE	Eunmi	LEE EUNMI	18.08.1988	DF	GoyaNg Daekyo WFC (KOR)	170	60	12
3	LIM Seonjoo	LIM	Seonjoo	LIM SEONJOO	27.11.1990	DF	HyuNdai Steel Red ANGels (KOR)	168	44	2
4	SHIM Seoyeon	SHIM	Seoyeon	SHIM SEOYEON	15.04.1989	DF	GoyaNg Daekyo WFC (KOR)	170	49	0
5	KIM Doyeon	KIM	Doyeon	KIM DOYEON	07.12.1988	DF	HyuNdai Steel Red ANGels (KOR)	167	61	1
6	HWANG Boram	HWANG	Boram	HWANG BORAM	06.10.1987	DF	GoyaNg Daekyo WFC (KOR)	171	33	0
7	JEON Gaeul	JEON	Gaeul	JEON GAEUL	14.09.1988	MF	HyuNdai Steel Red ANGels (KOR)	162	68	32
8	CHO Sohyun	CHO	Sohyun	CHO SOHYUN	24.06.1988	MF	HyuNdai Steel Red ANGels (KOR)	167	79	9
9	PARK Eunsun	PARK	Eunsun	PARK EUNSUN	25.12.1986	FW	WFC RossiyaNka (RUS)	182	33	18
10	JI Soyun	JI	Soyun	JI SOYUN	21.02.1991	FW	Chelsea LFC (ENG)	160	75	38
11	JUNG Seolbin	JUNG	Seolbin	JUNG SEOLBIN	06.01.1990	MF	HyuNdai Steel Red ANGels (KOR)	165	41	11
12	YOO Younga	YOO	Younga	YOO YOUNGA	15.04.1988	FW	HyuNdai Steel Red ANGels (KOR)	163	64	28
13	KWON Hahnul	KWON	Hahnul	KWON HAHNUL	07.03.1988	MF	BusaN SaNgmu (KOR)	157	95	15
14	SONG Suran	SONG	Suran	SONG SU RAN	07.09.1990	DF	DaejeoN Sportstoto WFC (KOR)	169	20	1
15	PARK Heeyoung	PARK	Heeyoung	PARK HEEYOUNG	21.03.1991	MF	DaejeoN Sportstoto WFC (KOR)	160	39	8
16	KANG Yumi	KANG	Yumi	KANG YUMI	05.10.1991	MF	JeoNbuk KSPO WFC (KOR)	163	3	0
17	KIM Hyeyeong	KIM	Hyeyeong	KIM HYEYEONG	26.02.1995	MF	GoyaNg Daekyo WFC (KOR)	172		
18	KIM Jungmi	KIM	Jungmi	KIM JUNGMI	16.10.1984	GK	HyuNdai Steel Red ANGels (KOR)	178	90	0
19	KIM Sooyun	KIM	Sooyun	KIM SOOYUN	30.08.1989	DF	JeoNbuk KSPO WFC (KOR)	165	44	9
20	KIM Hyeri	KIM	Hyeri	KIM HYERI	25.06.1990	DF	HyuNdai Steel Red ANGels (KOR)	165	46	1
21	YOON Younggeul	YOON	Younggeul	YOON YOUNGGEUL	28.10.1987	GK	SuwoN FMC (KOR)	171	1	0
22	LEE Sodam	LEE	Sodam	LEE SODAM	12.10.1994	MF	DaejeoN Sportstoto WFC (KOR)	155	18	1
23	LEE Geummin	LEE	Geummin	LEE GEUMMIN	07.04.1994	FW	Seoul City LFC (KOR)	167	7	1

Coach: YOON Dukyeo (KOR)

## List of Players

## Mexico



#	FIFA Display Name	Last Name	First Name	Shirt Name	DOB	POS	Club	Height	Caps	Goals
1	Cecilia SANTIAGO	SANTIAGO CISNEROS	Aurora Cecilia	C. SANTIAGO	19.10.1994	GK	No club affiliation	174	39	0
2	Kenti ROBLES	ROBLES SALAS	Vaitiare Kenti	K. ROBLES	15.02.1991	DF	RCD Espanyol (ESP)	161	40	0
3	Christina MURILLO	MURILLO RUIZ	Christina	CH. MURILLO	28.01.1993	DF	UNiv. MichigaN (USA)	172	22	0
4	Alina GARCIA MENDEZ	GARCIA MENDEZ ROWOLD	Alina Lisi	A. GARCIA MENDEZ	16.04.1991	DF	No club affiliation	177	46	1
5	Valeria MIRANDA	MIRANDA RODRIGUEZ	Valeria Aurora	V. MIRANDA	18.08.1992	DF	Pumas UNAM (MEX)	165	12	0
6	Jennifer RUIZ	RUIZ BROWN	Jennifer Marie	J. RUIZ	09.08.1983	MF	No club affiliation	167	31	4
7	Nayeli RANGEL	RANGEL HERNANDEZ	Lydia Nayeli	N. RANGEL	28.02.1992	MF	No club affiliation	170	67	6
8	Teresa NOYOLA	NOYOLA BAYARDO	Teresa	T. NOYOLA	15.04.1990	MF	Houston Dash (USA)	157	38	3
9	Charlyn CORRAL	CORRAL ANG	Veronica Charlyn	CH. CORRAL	11.09.1991	FW	Merilappi UNited (FIN)	152	28	15
10	Stephany MAYOR	MAYOR GUTIERREZ	Sandra Stephany	S. MAYOR	23.09.1991	MF	UDLA Puebla (MEX)	162	50	10
11	Monica OCAMPO	OCAMPO MEDINA	Monica	M. OCAMPO	04.01.1987	MF	Sky Blue (USA)	156	74	14
12	Pamela TAJONAR	TAJONAR ALONSO	Pamela	P. TAJONAR	02.12.1984	GK	Sevilla FC (ESP)	170	37	0
13	Greta ESPINOZA	ESPINOZA CASAS	Greta Alejandra	G. ESPINOZA	05.06.1995	DF	SedoNa FC Strikers (USA)	168	11	0
14	Arianna ROMERO	ROMERO TELLEZ	Arianna Jeanette	A. ROMERO	29.07.1992	DF	WashiNgtoN Spirit (USA)	161	29	1
15	Bianca SIERRA	SIERRA GARCIA	Bianca Elissa	B. SIERRA	25.06.1992	DF	Boston Breakers (USA)	170	30	0
16	Monica ALVARADO	ALVARADO RODRIGUEZ	Monica Rose	M. ALVARADO	11.01.1991	MF	Texas Christian Univ. (USA)	165	20	0
17	Veronica PEREZ	PEREZ MURILLO	Veronica Raquel	V. PEREZ	18.05.1988	MF	WashiNgtoN Spirit (USA)	159	73	8
18	Amanda PEREZ	PEREZ MURILLO	Amanda Araceli	A. PEREZ	31.07.1994	MF	UNiv. WashiNgtoN (USA)	167	4	0
19	Renae CUELLAR	CUELLAR CUELLAR	Renae Nicole	R. CUELLAR	24.06.1990	FW	WashiNgtoN Spirit (USA)	164	26	7
20	Maria SANCHEZ	SANCHEZ MORALES	Maria Guadalupe	M. SANCHEZ	20.02.1996	MF	No club affiliation	165	0	0
21	Anisa GUAJARDO	GUAJARDO BRAFF	Anisa Raquel	A. GUAJARDO	10.03.1991	FW	No club affiliation	165	13	4
22	Fabiola IBARRA	IBARRA MURO	Claudia Fabiola	F. IBARRA	02.02.1994	FW	Club Tijuana (MEX)	168	4	0
23	Emily ALVARADO	ALVARADO NATIVIDAD	Emily Sofia	E. ALVARADO	09.06.1998	GK	Texas Rush (USA)	176	0	0

Coach: Leonardo CUELLAR (MEX)



# List of Players

## Netherlands



#	FIFA Display Name	Last Name	First Name	Shirt Name	DOB	POS	Club	Height	Caps	Goals
1	Loes GEURTS	GEURTS	Loes	GEURTS	12.01.1986	GK	Kopparbergs/Goteborg FC (SWE)	168	105	0
2	Desiree VAN LUNTEREN	VAN LUNTEREN	Desiree	VAN LUNTEREN	30.12.1992	DF	AFC Ajax (NED)	170	23	0
3	Stefanie VAN DER GRAGT	VAN DER GRAGT	Stefanie	VAN DER GRAGT	16.08.1992	DF	Telstar (NED)	178	23	1
4	Mandy VAN DEN BERG	VAN DEN BERG	Mandy	VAN DEN BERG	26.08.1990	DF	LSK Kvinn FK (NOR)	165	59	3
5	Petra HOGEWONING	HOGEWONING	Petra Marieka Jacoba	HOGEWONING	26.03.1986	DF	AFC Ajax (NED)	170	98	0
6	Anouk DEKKER	DEKKER	Manieke Anouk	DEKKER	15.11.1986	MF	FC Twente (NED)	182	40	5
7	Manon MELIS	MELIS	Gabriella Maria	MELIS	31.08.1986	FW	Kopparbergs/Goteborg FC (SWE)	164	125	55
8	Sherida SPITSE	SPITSE	Sherida	SPITSE	29.05.1990	MF	LSK Kvinn FK (NOR)	167	106	15
9	Vivianne MIEDEMA	MIEDEMA	Anna Margaretha Marina Astrid	MIEDEMA	15.07.1996	FW	FC BayerN MUncheN (GER)	175	24	19
10	Danielle VAN DE DONK	VAN DE DONK	Daniëlle	VAN DE DONK	05.08.1991	MF	PSV/FC Eindhoven (NED)	160	37	6
11	Lieke MARTENS	MARTENS	Lieke Elisabeth Petronella	MARTENS	16.12.1992	FW	Kopparbergs/Goteborg FC (SWE)	170	51	21
12	Dyanne BITO	BITO	Dyanne Mary Christine	BITO	10.08.1981	DF	Telstar (NED)	163	146	6
13	Dominique JANSSEN	JANSSEN	Dominique Johanna Anna	JANSSEN	17.01.1995	DF	SGS EsseN (GER)	174	6	0
14	Anouk HOOGENDIJK	HOOGENDIJK	Anouk Anna	HOOGENDIJK	06.05.1985	DF	AFC Ajax (NED)	170	102	9
15	Merel VAN DONGEN	VAN DONGEN	Merel Didi	VAN DONGEN	11.02.1993	DF	AFC Ajax (NED)	170	5	1
16	Sari VAN VEENENDAAL	VAN VEENENDAAL	Sari	VAN VEENENDAAL	03.04.1990	GK	FC Twente (NED)	177	13	0
17	Tessel MIDDAG	MIDDAG	Tessel Tina	MIDDAG	23.12.1992	MF	AFC Ajax (NED)	176	25	3
18	Maran VAN ERP	VAN ERP	Maran	VAN ERP	03.12.1990	MF	PSV/FC Eindhoven (NED)	171	1	0
19	Kirsten VAN DE VEN	VAN DE VEN	Kirsten Johanna Maria	VAN DE VEN	11.05.1985	FW	FC Rosengård (SWE)	173	83	16
20	Jill ROORD	ROORD	Jill Jamie	ROORD	22.04.1997	MF	FC Twente (NED)	173	5	1
21	Vanity LEWERISSA	LEWERISSA	Vanity Tonja Caroll	LEWERISSA	01.04.1991	FW	Standard Liege (BEL)	160	5	0
22	Shanice VAN DE SANDEN	VAN DE SANDEN	Shanice Janice	VAN DE SANDEN	02.10.1992	FW	FC Twente (NED)	168	17	3
23	Angela CHRIST	CHRIST	Angela Anna	CHRIST	06.03.1989	GK	PSV/FC Eindhoven (NED)	167	13	0

Coach: Roger REIJNERS (NED)

# List of Players

## New Zealand



#	FIFA Display Name	Last Name	First Name	Shirt Name	DOB	POS	Club	Height	Caps	Goals
1	Erin NAYLER	NAYLER	Erin Nicole	NAYLER	17.04.1992	GK	Norwest UNited AFC (NZL)	175	29	0
2	Ria PERCIVAL	PERCIVAL	Ria Dawn	PERCIVAL	07.12.1989	DF	FF USV JeNa (GER)	161	104	11
3	Anna GREEN	GREEN	Anna	GREEN	20.08.1990	DF	No club affiliatioN	167	56	7
4	Katie DUNCAN	DUNCAN	Katie Cherie	DUNCAN	01.02.1988	MF	FC Zurich FraueN (SUI)	161	103	1
5	Abby ERCEG	ERCEG	Abby May	ERCEG	20.11.1989	DF	Chicago Red Stars (USA)	177	114	5
6	Rebekah STOTT	STOTT	Rebekah Ashley	STOTT	17.06.1993	DF	No club affiliatioN	172	40	2
7	Ali RILEY	RILEY	Alexandra Lowe	RILEY	30.10.1987	DF	FC RoseNgard (SWE)	164	93	1
8	Jasmine PEREIRA	PEREIRA	Jasmine Henrietta	PEREIRA	20.07.1996	FW	Three KiNgs UNited SC (NZL)	168	9	0
9	Amber HEARN	HEARN	Amber Liarnie Rose	HEARN	28.11.1984	FW	FF USV JeNa (GER)	173	100	45
10	Sarah GREGORIUS	GREGORIUS	Sarah Joelle	GREGORIUS	06.08.1987	FW	AS ElfeN Saitama (JPN)	157	67	23
11	Kirsty YALLOP	YALLOP	Kirsty Lee	YALLOP	04.11.1986	MF	Vittsjo GIK (SWE)	164	89	12
12	Betsy HASSETT	HASSETT	Betsy Doon	HASSETT	04.08.1990	MF	No club affiliatioN	158	79	8
13	Rosie WHITE	WHITE	Rosemary Eleanor Florence	WHITE	06.06.1993	FW	No club affiliatioN	165	69	14
14	Katie BOWEN	BOWEN	Kate Elizabeth	BOWEN	15.04.1994	MF	UNiv. North CaroliNa (USA)	172	27	0
15	Meikayla MOORE	MOORE	Meikayla Jean-Maree	MOORE	04.06.1996	DF	EasterN Suburbs AFC (NZL)	172	10	0
16	Annalie LONGO	LONGO	Annalie Antonia	LONGO	01.07.1991	MF	Coastal Spirit FC (NZL)	157	79	6
17	Hannah WILKINSON	WILKINSON	Hannah Lillian	WILKINSON	28.05.1992	FW	UNiv. TeNnessee (USA)	176	70	22
18	Catherine BOTT	BOTT	Catherine Joan	BOTT	22.04.1995	DF	Forrest Hill Milford UNited AFC (NZL)	165	1	0
19	Evie MILLYNN	MILLYNN	Evelyn Grace	MILLYNN	23.11.1994	MF	EasterN Suburbs AFC (NZL)	158	2	0
20	Daisy CLEVERLEY	CLEVERLEY	Daisy Grace Wilson	CLEVERLEY	30.04.1997	MF	Forrest Hill Milford UNited AFC (NZL)	167	3	2
21	Rebecca ROLLS	ROLLS	Rebecca Jane	ROLLS	22.08.1975	GK	Three KiNgs UNited SC (NZL)	178	21	0
22	Emma KETE	KETE	Emma Jillian	KETE	01.09.1987	FW	FeNcibles UNited AFC (NZL)	163	48	3
23	Cushla LICHTWARK	LICHTWARK	Cushla Myra Arama	LICHTWARK	29.11.1980	GK	Upper Hutt City FC (NZL)	181	0	0

Coach: Tony READINGS (ENG)



# List of Players

## Nigeria



#	FIFA Display Name	Last Name	First Name	Shirt Name	DOB	POS	Club	Height	Caps	Goals
1	Precious DEDE	DEDE	Precious Uzoaru	DEDE	18.01.1980	GK	Ibom Queens (NGA)	170	96	0
2	Blessing EDOHO	EDOHO	Blessing	EDOHO	05.09.1992	DF	Pelican Stars FC (NGA)	160	4	1
3	Osinachi OHALE	OHALE	Osinachi Marvis	OHALE	21.12.1991	DF	Rivers Angels FC (NGA)	173	24	1
4	Perpetua NKWOCHA	NKWOCHA	Perpetua Ijeoma	NKWOCHA	03.01.1976	FW	ClemeNsNAs IF (SWE)	180	98	80
5	Onome EBI	EBI	Onome	EBI	08.05.1983	DF	FC MiNsk (BLR)	175	48	0
6	Josephine CHUKWUNONYE	CHUKWUNONYE	Josephine Chiwendu	CHUKWUNONYE	19.03.1992	DF	Rivers Angels FC (NGA)	173	22	0
7	Esther SUNDAY	SUNDAY	Ukpong Esther	SUNDAY	13.03.1992	FW	SuNshiNe Queens FC (NGA)	158	23	5
8	Asisat OSHOALA	OSHOALA	Asisat Lamina	OSHOALA	09.10.1994	FW	Liverpool LFC (ENG)	169	14	10
9	Desire OPARANOZIE	OPARANOZIE	Ugochi Desire	OPARANOZIE	17.12.1993	FW	EN AvaNt GuiNgamp (FRA)	165	32	22
10	Courtney DIKE	DIKE	Courtney Ozioma	DIKE	03.02.1995	FW	Oklahoma State Univ. (USA)	156	0	0
11	Ini-Abasi UMOTONG	UMOTONG	Ini-Abasi Anefiok	UMOTONG	15.05.1994	FW	Portsmouth LFC (ENG)	165	0	0
12	Halimatu AYINDE	AYINDE	Halimatu Ibrahim	AYINDE	16.05.1995	MF	Delta Queens FC (NGA)	165	9	0
13	Ngozi OKOBI	OKOBI	Ngozi Sonia	OKOBI	14.12.1993	FW	Delta Queens FC (NGA)	165	22	2
14	Evelyn NWABUOKU	NWABUOKU	Evelyn Chiedu	NWABUOKU	14.11.1985	MF	BIK Kazygurt (KAZ)	167	39	3
15	Ugo NJOKU	NJOKU	Ugo	NJOKU	27.11.1994	DF	Rivers Angels FC (NGA)	172	6	0
16	Ibubeleye WHYTE	WHYTE	Ibubeleye	WHYTE	09.01.1992	GK	Rivers Angels FC (NGA)	171	6	0
17	Francisca ORDEGA	ORDEGA	Francisca	ORDEGA	19.10.1993	FW	WashiNgtoN Spirit (USA)	155	23	6
18	Loveth AYILA	AYILA	Loveth Ngusurun	AYILA	06.09.1994	FW	Rivers Angels FC (NGA)	159	3	0
19	Martina OHADUGHA	OHADUGHA	Onyinyechi Martina	OHADUGHA	05.05.1991	MF	Rivers Angels FC (NGA)	162	35	2
20	Cecilia NKU	NKU	Cecilia Ngibo	NKU	26.10.1992	MF	Rivers Angels FC (NGA)	153	8	1
21	Christy OHIAERIAKU	OHIAERIAKU	Christy Udogadi	OHIAERIAKU	13.12.1996	GK	Rivers Angels FC (NGA)	176	0	0
22	Sarah NNODIM	NNODIM	Sarah Ihechiluru Amaka	NNODIM	25.12.1995	DF	Nasarawa AmazoNs (NGA)	159	1	0
23	Ngozi EBERE	EBERE	Ngozi	EBERE	05.08.1991	DF	Rivers Angels FC (NGA)	175	17	1

Coach: Edwin OKON (NGA)

## List of Players

## Norway



#	FIFA Display Name	Last Name	First Name	Shirt Name	DOB	POS	Club	Height	Caps	Goals
1	Ingrid HJELMSETH	HJELMSETH	Ingrid	HJELMSETH	10.04.1980	GK	Stabaek IF (NOR)	173	94	0
2	Maria THORISDOTTIR	THORISDOTTIR	Maria	THORISDOTTIR	05.06.1993	DF	Klepp (NOR)	170	5	0
3	Marita SKAMMELSRUD LUND	LUND	Marita Skammelsrud	SKAMMELSRUD	29.01.1989	DF	LSK Kvinner FK (NOR)	173	64	2
4	Gry Tofte IMS	IMS	Gry Tofte	TOFTE IMS	02.03.1986	MF	Klepp (NOR)	168	44	4
5	Lisa-Marie UTLAND	UTLAND	Lisa-Marie Karlseng	UTLAND	19.09.1992	FW	SK Trondheims/OrN (NOR)	171	1	0
6	Maren MJELDE	MJELDE	Maren Nævdal	MJELDE	06.11.1989	MF	Avaldsnes IL (NOR)	165	89	10
7	Trine RONNING	RØNNING	Trine Bjerke	RØNNING	14.06.1982	DF	Stabaek IF (NOR)	164	154	22
8	Solveig GULBRANDSEN	GULBRANDSEN	Solveig Ingersdatter	GULBRANDSEN	12.01.1981	MF	Kolbotn IL (NOR)	169	181	53
9	Isabell HERLOVSEN	HERLOVSEN	Isabell Lehn	HERLOVSEN	23.06.1988	FW	LSK Kvinner FK (NOR)	170	102	43
10	Anja SONSTEVOLD	SØNSTEVOLD	Anja	SØNSTEVOLD	21.06.1992	MF	LSK Kvinner FK (NOR)	170	3	0
11	Nora HOLSTAD BERGE	BERGE	Nora Holstad	HOLSTAD	26.03.1987	DF	FC BayerMünchN (GER)	174	48	1
12	Silje VESTERBEKKMO	VESTERBEKKMO	Silje Marie	VESTERBEKKMO	22.06.1983	GK	Roa (NOR)	175	8	0
13	Ingrid Moe WOLD	WOLD	Ingrid Moe	WOLD	29.01.1990	DF	LSK Kvinner FK (NOR)	164	12	1
14	Ingrid SCHJELDERUP	SCHJELDERUP	Ingrid	SCHJELDERUP	21.12.1987	MF	Stabaek IF (NOR)	167	10	0
15	Marit SANDVEI	SANDVEI	Marit	SANDVEI	21.05.1987	DF	LSK Kvinner FK (NOR)	162	8	0
16	Elise THORSNES	THORSNES	Elise Hove	THORSNES	14.08.1988	FW	Avaldsnes IL (NOR)	174	82	16
17	Lene MYKJÅLAND	MYKJÅLAND	Lene	MYKJÅLAND	20.02.1987	MF	LSK Kvinner FK (NOR)	162	80	13
18	Melissa BJANESØY	BJÅNESØY	Melissa Linn Berman	BJÅNESØY	18.04.1992	FW	Stabaek IF (NOR)	170	21	4
19	Kristine MINDE	MINDE	Kristine Wigdahl	MINDE	08.08.1992	MF	LinnKöping FC (SWE)	169	50	6
20	Emilie HAAVI	HAAVI	Emilie Bosshard	HAAVI	16.06.1992	FW	LSK Kvinner FK (NOR)	164	42	11
21	Ada HEGERBERG	HEGERBERG	Ada Martine Stolsmo	HEGERBERG	10.07.1995	FW	Olympique Lyonnais (FRA)	177	36	17
22	Hege HANSEN	HANSEN	Hege	HANSEN	24.10.1990	FW	Klepp (NOR)	160	10	4
23	Cecilie FISKERSTRAND	FISKERSTRAND	Cecilie Hauståker	FISKERSTRAND	20.03.1996	GK	Stabaek IF (NOR)	174	3	0

Coach: Even PELLERUD (NOR)

## List of Players

## Spain



#	FIFA Display Name	Last Name	First Name	Shirt Name	DOB	POS	Club	Height	Caps	Goals
1	Ainhoa TIRAPU	TIRAPU DE GOÑI	Ainhoa	AINHOA	04.09.1984	GK	Athletic Club Bilbao (ESP)	170	43	0
2	Celia JIMENEZ	JIMENEZ DELGADO	Celia	CELIA	20.06.1995	DF	Alabama Soccer (USA)	170	3	0
3	Leire LANDA	LANDA IROZ	Leire	LEIRE	19.12.1986	DF	FC BarceloNa (ESP)	168	20	0
4	Melanie SERRANO PEREZ	SERRANO PEREZ	Melanie del Pilar	M. PEREZ	12.10.1989	DF	FC BarceloNa (ESP)	168	9	0
5	Ruth GARCIA	GARCIA GARCIA	Ruth	RUTH G.	26.03.1987	DF	FC BarceloNa (ESP)	166	45	3
6	Virginia TORRECILLA	TORRECILLA REYES	Virginia	VIRGINIA	04.09.1994	MF	FC BarceloNa (ESP)	173	14	0
7	Natalia PABLOS	PABLOS SANCHON	Natalia Teresa	NATALIA	15.10.1985	FW	ArseNal LFC (ENG)	166	21	19
8	Sonia BERMUDEZ	BERMUDEZ TRIBANO	Sonia	SONI	15.11.1984	FW	FC BarceloNa (ESP)	158	52	28
9	Veronica BOQUETE	BOQUETE GIADANS	Veronica	VERO	09.04.1987	MF	1. FFC FraNkfurt (GER)	163	48	29
10	Jennifer HERMOSO	HERMOSO FUENTES	Jennifer	J. HERMOSO	09.05.1990	MF	FC BarceloNa (ESP)	174	24	11
11	Priscila BORJA	BORJA MORENO	Priscila	PRISCILA B.	28.04.1985	FW	Atletico Madrid FemiNas (ESP)	165	22	6
12	Marta CORREDERA	CORREDERA RUEDA	Marta	M. CORREDERA	08.08.1991	MF	FC BarceloNa (ESP)	162	25	2
13	Dolores GALLARDO	GALLARDO NUÑEZ	Dolores	L. GALLARDO	10.06.1993	GK	Atletico Madrid FemiNas (ESP)	172	7	0
14	Vicky LOSADA	LOSADA GOMEZ	Maria Victoria	V. LOSADA	05.03.1991	FW	ArseNal LFC (ENG)	168	23	3
15	Silvia MESEGUER	MESEGUER BELLIDO	Silvia	MESEGUER	12.03.1989	MF	Atletico Madrid FemiNas (ESP)	168	35	4
16	Ivana ANDRES	ANDRES SANZ	Ivana	IVANA	13.07.1994	DF	ValeNcia FemiNas CF (ESP)	169	1	0
17	Elisabet IBARRA	IBARRA RABANCHO	Elisabet	IBARRA	29.06.1981	DF	Athletic Club Bilbao (ESP)	159	44	2
18	Marta TORREJON	TORREJON MOYA	Marta	MARTA	27.02.1990	DF	FC BarceloNa (ESP)	170	49	7
19	Erika VAZQUEZ	VAZQUEZ MORALES	Erika	ERIKA V.	16.02.1983	FW	Athletic Club Bilbao (ESP)	165	45	7
20	Irene PAREDES	PAREDES HERNANDEZ	Irene	PAREDES H.	04.07.1991	DF	Athletic Club Bilbao (ESP)	178	22	1
21	Alexia PUTELLAS	PUTELLAS SEGURA	Alexia	ALEXIA	04.02.1994	MF	FC BarceloNa (ESP)	173	23	4
22	Amanda SAMPEDRO	SAMPEDRO BUSTOS	Amanda	A. SAMPEDRO	26.06.1993	MF	Atletico Madrid FemiNas (ESP)	163	4	0
23	Sandra PANOS	PAÑOS GARCIA-VILLAMIL	Sandra	PAÑOS	04.11.1992	GK	LevaNte UD (ESP)	168	3	0

Coach: Ignacio QUEREDA (ESP)

## List of Players

## Sweden



#	FIFA Display Name	Last Name	First Name	Shirt Name	DOB	POS	Club	Height	Caps	Goals
1	Hedvig LINDAHL	LINDAHL	Rut Hedvig	LINDAHL	29.04.1983	GK	Chelsea LFC (ENG)	179	108	0
2	Charlotte ROHLIN	ROHLIN	Barbaro Charlotte	ROHLIN	02.12.1980	DF	LiNkopiNgs FC (SWE)	174	77	7
3	Linda SEMBRANT	SEMBRANT	Linda Brigitta	SEMBRANT	15.05.1987	DF	MoNtpellier HSC (FRA)	175	57	4
4	Emma BERGLUND	BERGLUND	Emma Sofia	BERGLUND	19.12.1988	DF	FC RoseNgard (SWE)	172	36	0
5	Nilla FISCHER	FISCHER	Åsa Nilla Maria	FISCHER	02.08.1984	DF	VfL Wolfsburg (GER)	175	131	19
6	Sara THUNEBRO	THUNEBRO	Sara Kristina	THUNEBRO	26.04.1979	DF	EskilstuNa UNited DFF (SWE)	165	131	5
7	Lisa DAHLKVIST	DAHLKVIST	Lisa Karolina Viktoria	DAHLKVIST	06.02.1987	MF	Orebro DFF (SWE)	173	96	9
8	Lotta SCHELIN	SCHELIN	Lotta Eva	SCHELIN	27.02.1984	FW	Olympique LyoNNais (FRA)	179	150	80
9	Kosovare ASLLANI	ASLLANI	Kosovare	ASLLANI	29.07.1989	FW	Paris SaiNt-GermaiN FC (FRA)	166	77	22
10	Sofia JAKOBSSON	JAKOBSSON	Eva Sofia	JAKOBSSON	23.04.1990	FW	MoNtpellier HSC (FRA)	174	57	10
11	Jenny HJOHLMAN	HJOHLMAN	Jenny Josefina	HJOHLMAN	13.02.1990	FW	Urnea IK FF (SWE)	168	12	1
12	Hilda CARLEN	CARLEN	Hilda Maria	CARLÉN	13.08.1991	GK	Pitea IF (SWE)	172	1	0
13	Malin DIAZ PETTERSSON	DIAZ PETTERSSON	Malin Sophie	DIAZ	03.01.1994	MF	EskilstuNa UNited DFF (SWE)	155	13	0
14	Amanda ILESTEDT	ILESTEDT	Amanda	ILESTEDT	17.01.1993	DF	FC RoseNgard (SWE)	178	7	1
15	Therese SJOGRAN	SJÖGRAN	Kerstin Ingrid Therese	SJÖGRAN	08.04.1977	MF	FC RoseNgard (SWE)	170	210	21
16	Lina NILSSON	NILSSON	Lina Therese	NILSSON	17.06.1987	DF	FC RoseNgard (SWE)	170	65	3
17	Caroline SEGER	SEGER	Sara Caroline	SEGER	19.03.1985	MF	Paris SaiNt-GermaiN FC (FRA)	173	138	21
18	Jessica SAMUELSSON	SAMUELSSON	Jessica Marie	SAMUELSSON	30.01.1992	DF	LiNkopiNgs FC (SWE)	166	21	0
19	Emma LUND	LUND	Emma Linnea	LUND	26.06.1989	FW	AIK SolNa (SWE)	175	11	2
20	Emilia APPELQVIST	APPELQVIST	Emilia Elisabeth	APPELQVIST	11.02.1990	MF	Pitea IF (SWE)	168	5	0
21	Carola SOBERG	SÖBERG	Carola Britt Therese	SÖBERG	29.07.1982	GK	Orebro DFF (SWE)	172	11	0
22	Olivia SCHOUGH	SCHOUGH	Olivia Alma Charlotta	SCHOUGH	11.03.1991	MF	EskilstuNa UNited DFF (SWE)	172	24	1
23	Elin RUBENSSON	RUBENSSON	Elin Ingrid Johanna	RUBENSSON	11.05.1993	DF	Kopparbergs/Goteborg FC (SWE)	166	19	0

Coach: Pia SUNDHAGE (SWE)

# List of Players

## Switzerland



#	FIFA Display Name	Last Name	First Name	Shirt Name	DOB	POS	Club	Height	Caps	Goals
1	Gaëlle THALMANN	THALMANN	Gaëlle	THALMANN	18.01.1986	GK	MSV Duisburg (GER)	170	36	0
2	Nicole REMUND	REMUND	Nicole Corinne	REMUND	31.12.1989	DF	FC Zurich FraueN (SUI)	161	42	2
3	Sandra BETSCHART	BETSCHART	Sandra	BETSCHART	30.03.1989	DF	SuNNaNa SK (SWE)	167	66	2
4	Rachel RINAST	RINAST	Rachel Miriam Marcia Free	RINAST	02.06.1991	DF	1. FC KoIN (GER)	176	6	0
5	Noelle MARITZ	MARITZ	Noelle	MARITZ	23.12.1995	DF	VfL Wolfsburg (GER)	165	29	1
6	Selina KUSTER	KUSTER	Selina Annamaria	KUSTER	08.08.1991	DF	FC Zurich FraueN (SUI)	172	59	1
7	Martina MOSER	MOSER	Martina	MOSER	09.04.1986	MF	TSG 1899 HoffeNheim (GER)	157	105	16
8	Cinzia ZEHNDER	ZEHNDER	Cinzia Vittoria	ZEHNDER	04.08.1997	MF	FC Zurich FraueN (SUI)	183	6	0
9	Lia WAELTI	WÄLTI	Lia Joëlle	WÄLTI	19.04.1993	MF	1. FFC TurbiNe Potsdam (GER)	167	42	3
10	Ramona BACHMANN	BACHMANN	Ramona	BACHMANN	25.12.1990	FW	FC RoseNgard (SWE)	162	61	33
11	Lara DICKENMANN	DICKENMANN	Lara Joy	DICKENMANN	27.11.1985	FW	Olympique LyoNNais (FRA)	165	99	40
12	Stenia MICHEL	MICHEL	Stenia Liliane	MICHEL	23.10.1987	GK	FF USV JeNa (GER)	161	11	0
13	Ana Maria CRNOGORCEVIC	CRNOGORCEVIC	Ana-Maria	CRNOGORCEVIC	03.10.1990	MF	1. FFC FraNkfurt (GER)	175	69	35
14	Rahel KIWIC	KIWIC	Rahel Marianne	KIWIC	05.01.1991	DF	MSV Duisburg (GER)	185	28	3
15	Caroline ABBE	ABBÉ	Caroline Agnès	ABBÉ	13.01.1988	DF	FC BayerN MUNcheN (GER)	179	105	9
16	Fabienne HUMM	HUMM	Fabienne Valérie	HUMM	20.12.1986	MF	FC Zurich FraueN (SUI)	165	35	10
17	Florijana ISMAILI	ISMAILI	Florijana	ISMAILI	01.01.1995	MF	BSC YouNg Boys (SUI)	170	10	0
18	Vanessa BUERKI	BÜRKI	Vanessa	BÜRKI	01.04.1986	MF	FC BayerN MUNcheN (GER)	168	68	9
19	Eseosa AIGBOGUN	AIGBOGUN	Eseosa Mandy	AIGBOGUN	23.05.1993	FW	FC Basel 1893 (SUI)	166	19	2
20	Daniela SCHWARZ	SCHWARZ	Daniela Regula	SCHWARZ	09.09.1985	DF	ValereNga IF (NOR)	167	23	1
21	Jennifer OEHRLI	OEHRLI	Jennifer Ruth Greti	OEHRLI	13.01.1989	GK	BSC YouNg Boys (SUI)	180	15	0
22	Vanessa BERNAUER	BERNAUER	Vanessa	BERNAUER	23.03.1988	MF	VfL Wolfsburg (GER)	169	50	3
23	Barla DEPLAZES	DEPLAZES	Barla Catrina	DEPLAZES	14.11.1995	FW	FC Zurich FraueN (SUI)	173	1	0

Coach: Martina VOSS-TECKLENBURG (GER)

## List of Players

## Thailand



#	FIFA Display Name	Last Name	First Name	Shirt Name	DOB	POS	Club	Height	Caps	Goals
1	Waraporn BOONSING	BOONSING	Waraporn	W.BOONSING	16.02.1990	GK	BuNdit Asia (THA)	170	85	0
2	Darut CHANGPLOOK	CHANGPLOOK	Darut	D.CHANGPLOOK	03.02.1988	DF	North BaNgkok UNiversity FC (THA)	164	20	1
3	Natthakarn CHINWONG	CHINWONG	Natthakarn	N.CHINWONG	15.03.1992	DF	BuNdit Asia (THA)	161	9	0
4	Duangnapa SRITALA	SRITALA	Duangnapa	D.SRITALA	04.02.1986	DF	BaNgkok FC (THA)	159	23	2
5	Ainon PHANCHA	PHANCHA	Ainon	A.PHANCHA	26.01.1992	DF	ChoNhuri FC (THA)	161	7	3
6	Pikul KHUEANPET	KHUEANPET	Pikul	P.KHUEANPET	20.09.1988	MF	KhoNkeaN (THA)	161	42	0
7	Silawan INTAMEE	INTAMEE	Silawan	S.INTAMEE	22.01.1994	MF	ChoNhuri FC (THA)	165	12	0
8	Naphat SEESRAUM	SEESRAUM	Naphat	N.SEESRAUM	11.05.1987	MF	KhoNkeaN (THA)	151	84	20
9	Warunee PHETWISET	PHETWISET	Warunee	W.PHETWISET	13.12.1990	DF	ChoNhuri FC (THA)	153	42	0
10	Sunisa SRANGTHAISONG	SRANGTHAISONG	Sunisa	S.SRANGTHAISONG	06.05.1988	DF	BuNdit Asia (THA)	160	25	2
11	Alisa RUKPINIJ	RUKPINIJ	Alisa	A.RUKPINIJ	02.02.1995	FW	ChoNhuri FC (THA)	158	3	0
12	Rattikan THONGSOMBUT	THONGSOMBUT	Rattikan	R.THONGSOMBUT	07.07.1991	MF	BuNdit Asia (THA)	157	19	3
13	Orathai SRIMANEE	SRIMANEE	Orathai	O.SRIMANEE	12.06.1988	FW	KhoNkeaN (THA)	151	6	0
14	Thanatta CHAWONG	CHAWONG	Thanatta	T.CHAWONG	19.06.1989	FW	BuNdit Asia (THA)	161	66	23
15	Nattaya DUANJANTHUEK	DUANJANTHUEK	Nattaya	DUANJAITHUEK	09.06.1991	MF	BuNdit Asia (THA)	166	0	0
16	Khwanrudi SAENGCHAN	SAENGCHAN	Khwanrudi	K.SAENGCHAN	16.05.1991	DF	BuNdit Asia (THA)	160	20	0
17	Anootsara MAIJARERN	MAIJARERN	Anootsara	A.MAIJARERN	14.02.1986	MF	Air Force CeNtral FC (THA)	163	81	21
18	Yada SENGYONG	SENGYONG	Yada	Y.SENGYONG	10.09.1993	GK	North BaNgkok UNiversity FC (THA)	170	3	0
19	Taneekarn DANGDA	DANGDA	Taneekarn	T.DANGDA	15.12.1992	FW	BaNgkok FC (THA)	173	16	9
20	Wilaiporn BOOTHDUANG	BOOTHDUANG	Wilaiporn	W.BOOTHDUANG	25.06.1987	MF	BaNgkok FC (THA)	157	45	11
21	Kanjana SUNG-NGOEN	SUNG-NGOEN	Kanjana	K.SUNG-NGOEN	21.09.1986	MF	BaNgkok FC (THA)	162	45	30
22	Sukanya CHOR.CHAROENYING	CHOR.CHAROENYING	Sukanya	S.CHOR.CHAROENYING	24.11.1987	GK	Air Force CeNtral FC (THA)	164	8	0
23	Nisa ROMYEN	ROMYEN	Nisa	N.ROMYEN	18.01.1990	FW	North BaNgkok UNiversity FC (THA)	165	47	32

Coach: Nuengrutai SRATHONGVIAN (THA)



## List of Players

## USA



#	FIFA Display Name	Last Name	First Name	Shirt Name	DOB	POS	Club	Height	Caps	Goals
1	Hope SOLO	STEVENS	Hope Amelia	SOLO	30.07.1981	GK	Seattle Reign FC (USA)	175	170	0
2	Sydney LEROUX	LEROUX	Sydney Rae	LEROUX	07.05.1990	FW	WesterN New York Flash (USA)	170	71	35
3	Christie RAMPONE	RAMPONE	Christie Patricia	RAMPONE	24.06.1975	DF	Sky Blue (USA)	168	306	4
4	Becky SAUERBRUNN	SAUERBRUNN	Rebecca Elizabeth	SAUERBRUNN	06.06.1985	DF	FC KaNsas City (USA)	168	81	0
5	Kelley O HARA	O HARA	Kelley Maureen	O'HARA	04.08.1988	DF	Sky Blue (USA)	165	60	0
6	Whitney ENGEN	ENGEN	Whitney Elizabeth	ENGEN	28.11.1987	DF	WesterN New York Flash (USA)	169	26	3
7	Shannon BOXX	BOXX	Shannon Leigh	BOXX	29.06.1977	MF	Chicago Red Stars (USA)	173	190	27
8	Amy RODRIGUEZ	SHILLING	Amy Joy	RODRIGUEZ	17.02.1987	FW	FC KaNsas City (USA)	163	123	29
9	Heather O REILLY	WERRY	Heather Ann	O'REILLY	02.01.1985	MF	FC KaNsas City (USA)	165	219	41
10	Carli LLOYD	LLOYD	Carli Anne	LLOYD	16.07.1982	MF	HoustoN Dash (USA)	172	195	63
11	Alex KRIEGER	KRIEGER	Alexandra Blaire	KRIEGER	28.07.1984	DF	WashiNgtoN Spirit (USA)	168	66	1
12	Lauren HOLIDAY	HOLIDAY	Lauren Cheney	HOLIDAY	30.09.1987	MF	FC KaNsas City (USA)	173	124	23
13	Alex MORGAN	MORGAN	Alexandra Patricia	MORGAN	02.07.1989	FW	PortlaNd ThorNs FC (USA)	170	84	51
14	Morgan BRIAN	BRIAN	Morgan Paige	BRIAN	26.02.1993	MF	HoustoN Dash (USA)	170	29	4
15	Megan RAPINOE	RAPINOE	Megan Anna	RAPINOE	05.07.1985	MF	Seattle Reign FC (USA)	170	102	29
16	Lori CHALUPNY	CHALUPNY	Lori Christine	CHALUPNY	29.01.1984	DF	Chicago Red Stars (USA)	163	102	10
17	Tobin HEATH	HEATH	Tobin Powell	HEATH	29.05.1988	MF	PortlaNd ThorNs FC (USA)	168	92	11
18	Ashlyn HARRIS	HARRIS	Ashlyn Michelle	HARRIS	19.10.1985	GK	WashiNgtoN Spirit (USA)	170	6	0
19	Julie JOHNSTON	JOHNSTON	Julie Beth	JOHNSTON	06.04.1992	DF	Chicago Red Stars (USA)	170	12	3
20	Abby WAMBACH	WAMBACH	Mary Abigail	WAMBACH	02.06.1980	FW	No club affiliatioN	181	242	182
21	Alyssa NAEHER	NAEHER	Alyssa Michele	NAEHER	20.04.1988	GK	BostoN Breakers (USA)	175	1	0
22	Meghan KLINGENBERG	KLINGENBERG	Meghan Elizabeth	KLINGENBERG	02.08.1988	DF	HoustoN Dash (USA)	158	34	2
23	Christen PRESS	PRESS	Christen Annemarie	PRESS	29.12.1988	FW	Chicago Red Stars (USA)	170	45	20

Coach: Jill ELLIS (USA)

# football world cup

probability of shared birthdays in a group of 23 people: (slightly) more than 50%

Women's World Cup Canada 2015: 11 teams with shared birthdays out of 24



# football world cup

probability of shared birthdays in a group of 23 people: (slightly) more than 50%

Women's World Cup Canada 2015: 11 teams with shared birthdays out of 24

World Cup Brazil 2014: 16 teams with shared birthdays out of 32

# football world cup

probability of shared birthdays in a group of 23 people: (slightly) more than 50%

Women's World Cup Canada 2015: 11 teams with shared birthdays out of 24

World Cup Brazil 2014: 16 teams with shared birthdays out of 32

World Cup South Africa 2010: 15 teams with shared birthdays out of 32

# games of chance

probability of an event =  $\frac{\text{number of favourable outcomes}}{\text{number of possible outcomes}}$

e.g., probability of rolling an even number with a die

$$= \frac{\begin{array}{|c|c|c|} \hline \cdot & \cdot & \cdot \\ \hline \cdot & \cdot & \cdot \\ \hline \cdot & \cdot & \cdot \\ \hline \end{array}}{\begin{array}{|c|c|c|c|c|c|} \hline \cdot & \cdot & \cdot & \cdot & \cdot & \cdot \\ \hline \cdot & \cdot & \cdot & \cdot & \cdot & \cdot \\ \hline \cdot & \cdot & \cdot & \cdot & \cdot & \cdot \\ \hline \end{array}} = \frac{3}{6} = \frac{1}{2} = 0.5 = \frac{50}{100} = 50\%$$



law of large numbers

probability of an event  $\approx \frac{\text{number of times the event occurred}}{\text{number of trials}}$

e.g., probability of rolling an even number with a die

$$\approx \frac{\text{number of times the outcome is an even number}}{\text{number of times the die is rolled}}$$

## rules of chance

probability of two independent events = probability of the first event  
× probability of the second event

e.g., probability of rolling two even numbers with two dice

$$= \frac{\begin{array}{|c|c|c|} \hline \cdot & \cdot & \cdot \\ \hline \cdot & \cdot & \cdot \\ \hline \cdot & \cdot & \cdot \\ \hline \end{array}}{\begin{array}{|c|c|c|c|c|c|} \hline \cdot & \cdot & \cdot & \cdot & \cdot & \cdot \\ \hline \cdot & \cdot & \cdot & \cdot & \cdot & \cdot \\ \hline \cdot & \cdot & \cdot & \cdot & \cdot & \cdot \\ \hline \end{array}} \times \frac{\begin{array}{|c|c|c|} \hline \cdot & \cdot & \cdot \\ \hline \cdot & \cdot & \cdot \\ \hline \cdot & \cdot & \cdot \\ \hline \end{array}}{\begin{array}{|c|c|c|c|c|c|} \hline \cdot & \cdot & \cdot & \cdot & \cdot & \cdot \\ \hline \cdot & \cdot & \cdot & \cdot & \cdot & \cdot \\ \hline \cdot & \cdot & \cdot & \cdot & \cdot & \cdot \\ \hline \end{array}} = \frac{3}{6} \times \frac{3}{6} = \frac{1}{2} \times \frac{1}{2} = \frac{1}{4} = 0.25 = 25\%$$

probability of the contrary of an event = 1 – (probability of the event)

e.g., probability of rolling an odd number with a die

$$= 1 - \frac{\begin{array}{|c|c|c|} \hline \cdot & \cdot & \cdot \\ \hline \cdot & \cdot & \cdot \\ \hline \cdot & \cdot & \cdot \\ \hline \end{array}}{\begin{array}{|c|c|c|c|c|c|} \hline \cdot & \cdot & \cdot & \cdot & \cdot & \cdot \\ \hline \cdot & \cdot & \cdot & \cdot & \cdot & \cdot \\ \hline \cdot & \cdot & \cdot & \cdot & \cdot & \cdot \\ \hline \end{array}} = 1 - \frac{3}{6} = 1 - \frac{1}{2} = \frac{1}{2} = 0.5 = 50\%$$

# national lottery

probability of choosing the right 6 numbers out of 49?

# national lottery

probability of choosing the right 6 numbers out of 49?

$$\frac{6}{49} \times \frac{5}{48} \times \frac{4}{47} \times \frac{3}{46} \times \frac{2}{45} \times \frac{1}{44} = \frac{720}{10068347520} = \frac{1}{13983816}$$

## birthday paradox

probability that in a group of 23 people someone else has the same birthday as me?

## birthday paradox

probability that in a group of 23 people someone else has the same birthday as me?

$1 - (\text{probability that in a group of 23 people no one has the same birthday as me})$



## birthday paradox

probability that in a group of 23 people someone else has the same birthday as me?

1 - (probability that in a group of 23 people no one has the same birthday as me)

$$= 1 - \underbrace{\frac{365}{366} \times \frac{365}{366} \times \frac{365}{366} \times \cdots \times \frac{365}{366}}_{22 \text{ times}} = 1 - \left(\frac{365}{366}\right)^{22} \approx 1 - 0.942 = 0.058 = 5.8 \%$$

## birthday paradox

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probability that in a group of 23 people at least two have the same birthday?

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probability that in a group of 23 people at least two have the same birthday?

1 - (probability that in a group of 23 people everyone has a different birthday)

## birthday paradox

probability that in a group of 23 people someone else has the same birthday as me?

1 - (probability that in a group of 23 people no one has the same birthday as me)

$$= 1 - \underbrace{\frac{365}{366} \times \frac{365}{366} \times \frac{365}{366} \times \cdots \times \frac{365}{366}}_{22 \text{ times}} = 1 - \left(\frac{365}{366}\right)^{22} \approx 1 - 0.942 = 0.058 = 5.8 \%$$

probability that in a group of 23 people at least two have the same birthday?

1 - (probability that in a group of 23 people everyone has a different birthday)

$$= 1 - \frac{365}{366} \times \frac{364}{366} \times \frac{363}{366} \times \cdots \times \frac{366 - 22}{366} \approx 1 - 0.494 = 0.506 = 50.6 \%$$

## birthday paradox

probability that in a group of 23 people someone else has the same birthday as me?

1 - (probability that in a group of 23 people no one has the same birthday as me)

$$= 1 - \underbrace{\frac{365}{366} \times \frac{365}{366} \times \frac{365}{366} \times \cdots \times \frac{365}{366}}_{22 \text{ times}} = 1 - \left(\frac{365}{366}\right)^{22} \approx 1 - 0.942 = 0.058 = 5.8 \%$$

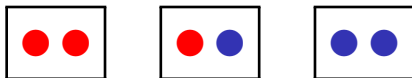
probability that in a group of 23 people at least two have the same birthday?

1 - (probability that in a group of 23 people everyone has a different birthday)

$$= 1 - \frac{365}{366} \times \frac{364}{366} \times \frac{363}{366} \times \cdots \times \frac{366 - 22}{366} \approx 1 - 0.494 = 0.506 = 50.6 \%$$

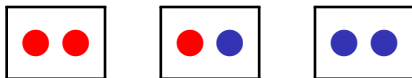
probability of shared birthdays in a group of 23 people: (slightly) more than 50 %

## Bertrand's box paradox



choose a box at random and take one marble at random from the box  
e.g., it is red: what is the probability that the remaining marble is also red?

## Bertrand's box paradox

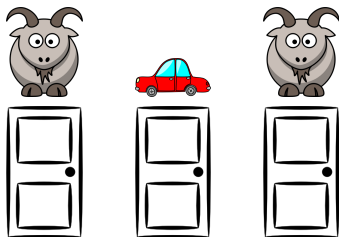


choose a box at random and take one marble at random from the box  
e.g., it is red: what is the probability that the remaining marble is also red?

probability that the remaining marble has the same colour

= probability of choosing a box with two marbles of the same colour =  $\frac{2}{3}$

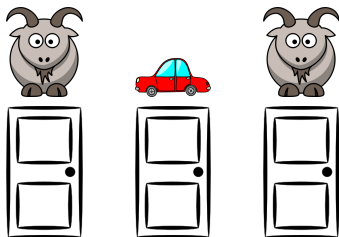
## Monty Hall paradox



choose a door and the host will open one of the other doors to reveal a goat  
e.g., you choose the first and he opens the third: should you switch to the second?



# Monty Hall paradox



choose a door and the host will open one of the other doors to reveal a goat  
e.g., you choose the first and he opens the third: should you switch to the second?

probability of winning by switching doors

= probability that your first choice was wrong =  $\frac{2}{3}$

## paradox of the second ace



I choose two marbles at random and I will win if they are the red and the blue ones  
what is the probability that I will win if:

- ▶ I tell you that I have (at least) the red marble?
  
  
  
  
  
  
  
  
  
  
- ▶ I tell you that I have (at least) the blue marble?
  
  
  
  
  
  
  
  
  
  
- ▶ I tell you that I have (at least) one of them?

## paradox of the second ace



I choose two marbles at random and I will win if they are the red and the blue ones  
what is the probability that I will win if:

- ▶ I tell you that I have (at least) the red marble?

$$\frac{\begin{array}{c} \bullet \\ \bullet \\ \bullet \end{array}}{\begin{array}{ccc} \bullet & \bullet & \bullet \\ \bullet & \bullet & \circ \\ \bullet & \bullet & \circ \end{array}} = \frac{1}{3}$$

- ▶ I tell you that I have (at least) the blue marble?

$$\frac{\begin{array}{c} \bullet \\ \bullet \\ \bullet \end{array}}{\begin{array}{ccc} \bullet & \bullet & \bullet \\ \bullet & \bullet & \circ \\ \bullet & \bullet & \circ \end{array}} = \frac{1}{3}$$

- ▶ I tell you that I have (at least) one of them?

$$\frac{\begin{array}{c} \bullet \\ \bullet \\ \bullet \end{array}}{\begin{array}{ccccc} \bullet & \bullet & \bullet & \bullet & \bullet \\ \bullet & \bullet & \circ & \bullet & \circ \\ \bullet & \bullet & \circ & \bullet & \circ \end{array}} = \frac{1}{5}$$