

**Préférences alimentaires (Birks 1987)**  
20 pays x 16 aliments - préférences de 0 à 100

	grcof	incof	tea	sweet	biscu	pacso	tinso	inpo	frofi	frove	freap	freor	tinfr	jam	garl	butt	marg	oil	yog	crisp
ALL	90	49	88	19	57	51	19	21	27	21	81	75	44	71	22	91	85	74	30	26
ITA	82	10	60	2	55	41	3	2	4	2	67	71	9	46	80	66	24	94	5	18
FRA	88	42	63	4	76	53	11	23	11	5	87	84	40	45	88	94	47	36	57	3
PB	96	62	98	32	62	67	43	7	14	14	83	89	61	81	15	31	97	13	53	15
BEL	94	38	48	11	74	37	25	9	13	12	76	76	42	57	29	84	80	83	20	5
LUX	97	61	86	28	79	73	12	7	26	23	85	94	83	20	91	94	94	84	31	24
GB	27	86	99	22	91	55	76	17	20	24	76	68	89	91	11	95	94	57	11	28
POR	72	26	77	2	22	34	1	5	20	3	22	51	8	16	89	65	78	92	6	9
AUT	55	31	61	15	29	33	1	5	15	11	49	42	14	41	51	51	72	28	13	11
SUI	73	72	85	25	31	69	10	17	19	15	79	70	46	61	64	82	48	61	48	30
SUE	97	13	93	31	60	43	43	39	54	45	56	78	53	75	9	68	32	48	2	93
DAN	96	17	92	35	66	32	17	11	51	42	81	72	50	64	11	92	91	30	11	34
NOR	92	17	83	13	62	51	4	17	30	15	61	72	34	51	11	63	94	28	2	62
FIN	98	12	84	20	64	27	10	8	18	12	50	57	22	37	15	96	94	17	0	64
ESP	70	40	40	0	62	43	2	14	23	7	59	77	30	38	86	44	51	91	16	13
IRE	13	52	99	11	80	75	18	2	5	3	57	52	46	89	5	97	25	31	3	9

**ACP non normée**  
**individus : pays - variables : aliments**

Valeurs propres d'inertie

	F1	F2	F3	F4	F5	F6	F7	F8	F9	F10	F11	F12	F13	F14	F15	F16
Valeur propre	2715.36	1635.09	1165.78	733.81	588.21	435.29	379.53	216.11	157.28	118.75	90.82	46.95	31.10	7.34	1.90	0.00
% variance	32.62	19.64	14.01	8.82	7.07	5.23	4.56	2.60	1.89	1.43	1.09	0.56	0.37	0.09	0.02	0.00
% cumulé	32.62	52.27	66.27	75.09	82.16	87.39	91.95	94.54	96.43	97.86	98.95	99.52	99.89	99.98	100.00	100.00

Coordonnées des individus

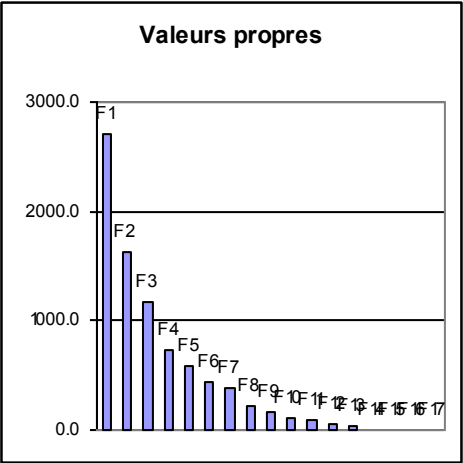
	F1	F2	F3	F4
ALL	-21.245	10.462	17.417	-5.538
ITA	79.234	-8.502	-19.837	-31.924
FRA	35.218	40.137	16.148	6.909
PB	-59.656	24.483	24.195	54.350
BEL	10.540	12.660	12.565	-3.513
LUX	18.613	56.857	66.720	-12.792
GB	-88.810	60.874	-26.522	-10.893
POR	92.166	-21.584	-12.179	12.461
AUT	37.180	-29.664	-35.671	45.253
SUI	11.461	37.284	0.532	-3.520
SUE	-53.927	-59.006	8.888	-66.396
DAN	-47.733	-35.961	26.861	2.754
NOR	-26.173	-55.855	12.693	13.782
FIN	-19.605	-72.054	8.238	18.661
ESP	74.560	14.750	-3.435	-13.869
IRE	-41.822	25.116	-96.614	-5.724

Contributions des axes aux individus  
(cosinus carrés)

	F1	F2	F3	F4	Somme
ALL	0.191	0.046	0.128	0.013	0.378
ITA	0.697	0.008	0.044	0.113	0.862
FRA	0.174	0.225	0.036	0.007	0.442
PB	0.334	0.056	0.055	0.277	0.722
BEL	0.031	0.045	0.045	0.003	0.125
LUX	0.034	0.315	0.434	0.016	0.799
GB	0.520	0.244	0.046	0.008	0.818
POR	0.703	0.039	0.012	0.013	0.766
AUT	0.216	0.138	0.199	0.320	0.873
SUI	0.028	0.302	0.000	0.003	0.333
SUE	0.232	0.278	0.006	0.352	0.869
DAN	0.382	0.217	0.121	0.001	0.721
NOR	0.135	0.615	0.032	0.037	0.819
FIN	0.049	0.661	0.009	0.044	0.763
ESP	0.733	0.029	0.002	0.025	0.788
IRE	0.135	0.049	0.722	0.003	0.908

Contributions des individus aux axes

	F1	F2	F3	F4
ALL	1.039	0.418	1.626	0.261
ITA	14.450	0.276	2.110	8.680
FRA	2.855	6.158	1.398	0.407
PB	8.192	2.291	3.139	25.159
BEL	0.256	0.613	0.846	0.105
LUX	0.797	12.357	23.865	1.394
GB	18.154	14.165	3.771	1.011
POR	19.552	1.781	0.795	1.323
AUT	3.182	3.363	6.822	17.442
SUI	0.302	5.313	0.002	0.106
SUE	6.694	13.308	0.424	37.548
DAN	5.244	4.943	3.868	0.065
NOR	1.577	11.925	0.864	1.618
FIN	0.885	19.845	0.364	2.966
ESP	12.796	0.832	0.063	1.638
IRE	4.026	2.411	50.043	0.279



Coordonnées des variables  
(corrélations avec les composantes principales)

	F1	F2	F3	F4
grcof	0.116	-0.372	0.861	-0.014
incof	-0.299	0.877	-0.046	0.153
tea	-0.767	0.013	-0.029	0.013
sweet	-0.739	-0.047	0.411	0.022
biscu	-0.532	0.368	0.080	-0.253
pacso	-0.288	0.705	-0.050	-0.024
tinso	-0.760	0.316	-0.021	-0.181
inpo	-0.337	-0.124	0.286	-0.523
frofi	-0.374	-0.434	0.449	-0.378
frove	-0.613	-0.231	0.425	-0.383
freap	-0.378	0.573	0.460	-0.042
freor	-0.161	0.405	0.737	-0.250
tinfr	-0.684	0.581	0.303	-0.177
jam	-0.799	0.198	-0.366	-0.127
garl	0.877	0.340	0.203	-0.055
butt	-0.272	0.197	-0.007	-0.313
marg	-0.323	-0.048	0.529	0.554
oil	0.617	0.327	0.117	-0.503
yog	0.025	0.629	0.411	0.318
crisp	-0.458	-0.640	0.233	-0.407

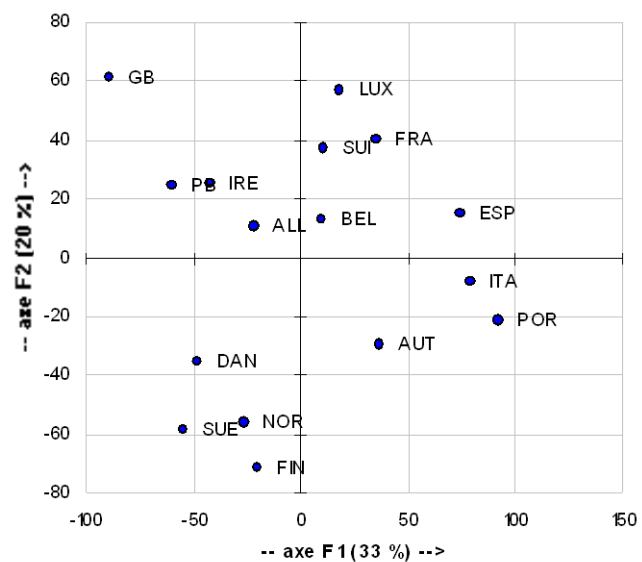
Contributions des axes aux variables  
(corrélations carrées)

	F1	F2	F3	F4
grcof	0.013	0.138	0.742	0.000
incof	0.089	0.770	0.002	0.023
tea	0.588	0.000	0.001	0.000
sweet	0.547	0.002	0.169	0.000
biscu	0.283	0.136	0.006	0.064
pacso	0.083	0.497	0.003	0.001
tinso	0.577	0.100	0.000	0.033
inpo	0.114	0.015	0.082	0.273
frofi	0.140	0.189	0.202	0.143
frove	0.376	0.054	0.181	0.147
freap	0.143	0.329	0.212	0.002
freor	0.026	0.164	0.543	0.063
tinfr	0.467	0.338	0.092	0.031
jam	0.638	0.039	0.134	0.016
garl	0.769	0.116	0.041	0.003
butt	0.074	0.039	0.000	0.098
marg	0.104	0.002	0.279	0.307
oil	0.381	0.107	0.014	0.253
yog	0.001	0.396	0.169	0.101
crisp	0.209	0.409	0.054	0.165

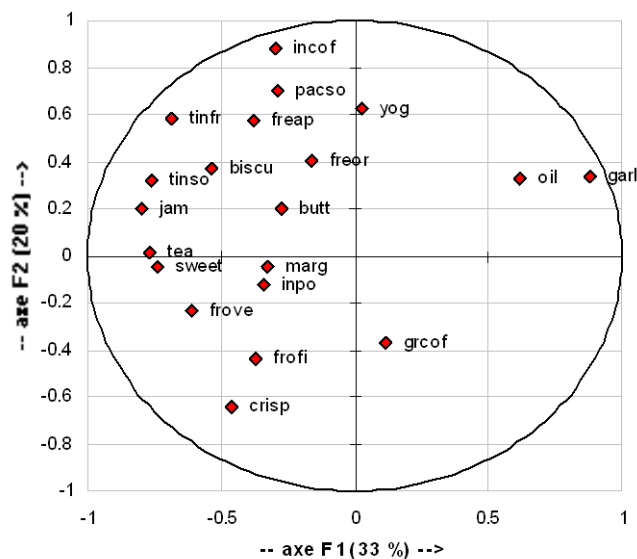
Contributions des variables aux axes

	F1	F2	F3	F4
grcof	0.307	5.268	39.623	0.017
incof	1.650	23.652	0.090	1.592
tea	6.974	0.003	0.023	0.007
sweet	2.476	0.017	1.781	0.008
biscu	3.590	2.856	0.188	2.996
pacso	0.683	6.787	0.048	0.018
tinso	8.143	2.342	0.015	1.702
inpo	0.360	0.081	0.603	3.198
frofi	0.943	2.113	3.174	3.570
frove	2.122	0.502	2.379	3.066
freap	1.522	5.827	5.269	0.070
freor	0.176	1.854	8.603	1.579
tinfr	8.730	10.474	3.982	2.167
jam	11.247	1.151	5.485	1.049
garl	31.908	7.968	3.968	0.469
butt	1.113	0.975	0.002	5.475
marg	2.589	0.095	16.199	28.234
oil	10.933	5.110	0.920	26.856
yog	0.008	8.225	4.918	4.688
crisp	4.526	14.698	2.731	13.240

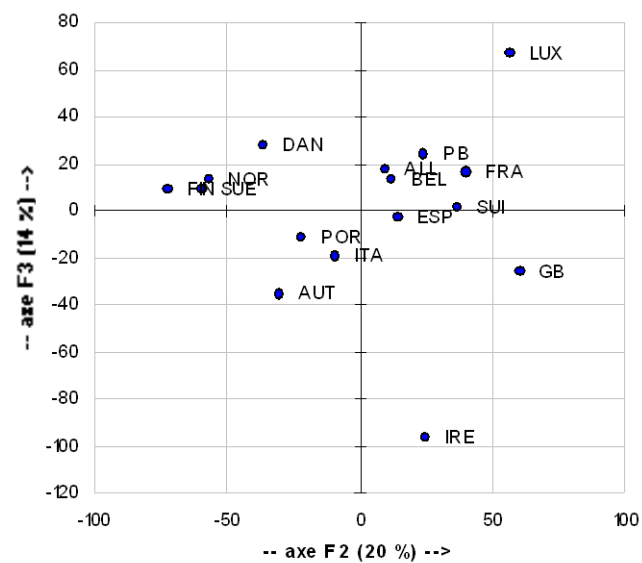
Individus (axes F1 et F2 : 52 %)



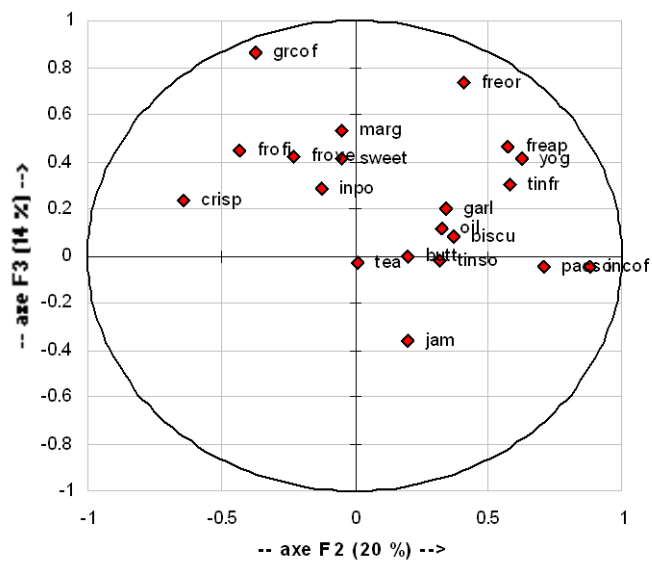
Variables (axes F1 et F2 : 52 %)



Individus (axes F2 et F3 : 34 %)



Variables (axes F2 et F3 : 34 %)



## Distances euclidiennes entre les pays

*	GERM	ITAL	FRAN	NETH	BELG	LUXE	BRIT	PORT	AUST	SWIT	SWED	DENM	NORW	FINL	SPAI	IREL
GERMANY	0	123	106	102	61	105	115	136	116	77	118	74	87	106	117	129
ITALY	123	0	107	179	101	143	198	92	107	114	159	152	137	144	64	156
FRANCE	106	107	0	136	98	105	169	139	119	85	168	133	136	142	99	150
NETHERLA	102	179	136	0	124	146	131	188	140	118	152	114	115	143	162	153
BELGIUM	61	101	98	124	0	110	135	125	110	103	143	99	104	115	91	141
LUXEMBOU	105	143	105	146	110	0	154	146	157	104	173	135	143	156	121	182
BRITAIN	115	198	169	131	135	154	0	205	174	141	160	137	153	168	181	121
PORTUGAL	136	92	139	188	125	146	205	0	90	128	185	162	142	142	88	181
AUSTRIA	116	107	119	140	110	157	174	90	0	108	158	123	102	106	98	136
SWITZERL	77	114	85	118	103	104	141	128	108	0	141	124	123	140	104	129
SWEDEN	118	159	168	152	143	173	160	185	158	141	0	102	101	119	165	161
DENMARK	74	152	133	114	99	135	137	162	123	124	102	0	70	80	151	146
NORWAY	87	137	136	115	104	143	153	142	102	123	101	70	0	54	134	143
FINLAND	106	144	142	143	115	156	168	142	106	140	119	80	54	0	151	153
SPAIN	117	64	99	162	91	121	181	88	98	104	165	151	134	151	0	162
IRELAND	129	156	150	153	141	182	121	181	136	129	161	146	143	153	162	0

## Hiérarchie (unweighted pair group average method)

NODE	GROUP-1	GROUP-2	DISSIMILARITY	N
1	NORWAY	FINLAND	54	2
2	GERMANY	BELGIUM	61	2
3	ITALY	SPAIN	64	2
4	DENMARK	NODE-1	75	3
5	FRANCE	SWITZERL	85	2
6	NODE-3	PORTUGAL	90	3
7	NODE-2	NODE-5	96	4
8	NODE-6	AUSTRIA	98.333	4
9	NODE-7	LUXEMBOU	106	5
10	SWEDEN	NODE-4	107.333	4
11	NODE-9	NODE-8	120.2	9
12	BRITAIN	IRELAND	121	2
13	NETHERLA	NODE-10	131	5
14	NODE-11	NODE-13	137.067	14
15	NODE-14	NODE-12	155.107	16

## Dendogramme (ou arbre hiérarchique)

