6.5. Psycho-Linguistical Apperception Test

- PLAT -

by Psychological Analysis of Configurations in Diagnosis and to Study Verbal Notations. Demonstration and Critics on a non parametric multivariate Method and it´s outlook on possible Standardisation to Rorschach-Inkblot-Test

by Kurt-Wilhelm Laufs, rev. © 2011-02-25, update: 2015-02-25, 2016-02-22, ©

Summary: The aim of PLAT is to find apperception behind and on the ground of verbal utterings. Four-configurations of classified binary terms are applied on verbal sentences as units. concerning social, precisely-accurate, confabulatoric and emotional directions within units. For demonstration of this method, there is given an example on PLAT analysis on written material with an exemplary study on at random analysed pages of a German author. Analysis of configurations and an appropriate and necessary split-half validation after author´s classification shows significances of sentences taken on 6 pages at random out of about 280 pages of a novel and analysed as demonstration of the PLAT-method in configuration analysis and it´s validation. PLAT shows, there were high significances (a < 0,001) in analysing configuration rows to 89 of 186 configurated sentences.

It must be warned of the enthusiasm on high significances not to interpret them without externe validation (observations, anamnestic and explorative material) and not to over-interprete the heuristical practitioner's e-KFA method, here demonstrated. The heuristical, non parametric multivariate and binary approach by PLAT could also be applied for generating hypotheses in clinical diagnostics and social-psychological research and analysis of small groups.
PLAT method to 8 binary categories as dimensional ratings on and to generate hypotheses by Rorschach inkblot techniques is explained. The eight configurative categories (256 combinations to be compared to equal distribution in practitioner`s chi-square) to Ro are as twice 4-configurations in a step downwards to split-half validate, and after validation in a step upwards to validate mathematically projectively, 8-configurations to compare significances of twice 4-configurations in rows of 256 to an 8-configuration standard matrix and it´s binary standard colomn frequency to individually by Ro generated items and it´s individual standardisation of significances.

Resumé: Y trouver d´apperception en base aux paroles, c´est le but du PLAT. Configurations de 4, aux termes binaires classifiés aux paroles comme unitées montrent des directions du social, de la précision verbale, de la confabulation et d´émotion. À l´ égard d´un example de la litterature Allemande, la méthode PLAT de l´analyse aux configurations avec d´une validation de la fidelité après d´une bi-partation montre des significances (< 0,001) du sujet, d´un livre d´autour de 280 pages d´un auteur Allemand (haute significanes aux 6 pages avec 89 paroles significantes entre 186 paroles classifiées et configurées, choisi les 6 pages à l´échantillon par hasard de ca. 280 pages d´un roman).

Cette méthode PLAT semble aussi applicable y générer des hypothèses en psychologie diagnostique et en psychologie sociale en rechere et analyse aux groups, les hypothèses les y générées y traiter les avec prudence. Il y avaiet proposé un quotient d´une redundance apperceptive. La méthode e-KFA au PLAT en travail au test Rorschach soit explique aux 8 catégories binaires. Des huit catégories configuratives au Ro comme deux fois 4-configurations, en direction mathématiquement basse les validées par bipartation, et après cette validation y en haut en diréction-mathématique pour les validées par la méthode PLAT d´une validation en fourchette extrapolée, font comparés au 8-configurations aux significances déjà les reçus par les deux fois 4-configurations dans les rangées de 256 à l´une matrice du standard avec la frequence standard aux columnes, en comparison des élements générées par le Ro les standardiser aux significances individuélles, calculées par e-KFA comme methode pratique de chi-carre en pourcent avec comparaison (inférence) de distribution égale en pourcent aux combinaisions (configurations)..

Zusammenfassung: Ziel der hier vorgestellten heuristischen Methode PLAT ist es, zugrunde liegende apperzeptive Strukturen in Textmaterial zu finden. Zur Analyse mit der PLAT-Methode werden Sätze von Texten als Einheiten betrachtet und je Satz zu Vierer-Konfigurationen klassifizierend signiert hinsichtlich binärer Richtungen der Satzinhalte hinsichtlich des Sozialen, des akkurat Präzisen, des Konfabulatorischen und des Emotionalen. Am Beispiel einer Zufallsstichprobe von Buchseiten eines deutschen Autors wird die Methode des PLAT vorgestellt und eine nicht-parametrische multivariate e-KFA mit Split-Half-Spalten-Validierung der Signifikanzen vorgenommen. Die PLAT Analyse von 6 Buchseiten der Zufallsstichprobe aus einem Buch von ca. 280 Seiten zeigt bei 89 von 186 konfigurierten Sätzen höchste Signifikanzen (< 0,001). PLAT scheint brauchbar zu sein, um in der Klinischen, Diagnostischen und Sozial-Psychologie in Einzelfällen oder bei Gruppen von aufgezeichnetem Material Hypothesen zu erzeugen über einen den Aufzeichnungsinhalten zugrunde liegenden apperzeptiven Stil, wobei diese Hypothesen behutsam und nicht über zu interpretieren sind.

Die Platt-Methode mit e-KFA (Praktiker-Methode von Prozent-Chi-Quadrat mit Gleichverteilung zu Konfigurationen einer Kombinations-Matrix) wird des Weiteren anhand von 8 Kategorien für den Umgang mit dem Rorschach-Test erklärt. Bei Achter-Konfigurationen zu Ro mit ihren Signifikanzen aus split-half validierten zwei mal Vierer-Konfigurationen wird nach der validierenden Hinunterrechnung dann hochgerechnet um in der extrapolativen Gabelung der 256 Zeilen der Standard-Hochrechnungsmatrix die validierten zweimal Viererkonfigurationen in Reihen nebeneinander auf ihre durchgängige Signifikanz zu vergleichen und so zu einer individuellen Standardisierung von Ro-Signifikanzen zu gelangen.

To introduce to the method of PLAT (psycholinguistical apperception test) by *configuration analysis* and it´s split-half validation, one even could take some of own texts to analyse them. Grid methods on personality are common to psychologists since G.A. Kelly.
The example here, will show e-KFA (elaborated practitioner`s method) on application of PLAT . The heuristical non-parametrical multivariate method of *configuration analysis (KFA)* , (lexically c.f. Clauss, G. Et al., 1976, Wörterbuch der Psychologie. Leipzig unbd Köln) and it´s validation on Rorschach-Methods, analyzing texts (sentences), here, further elaborated for practitioner's purpose by percentage calculation that helps to avoid the problem of numbers about 40 and not much more or less items or persons by non-percentage chi-square.
Inferring model of equal percentage distribution has left the conception of binominal distributions and numerics at KFA with it´s lack of validation, for binary psychological data of samples of individuals need neither binominal nor normal distribution, thus, leaving KFA (to percentage instead) and *adjusting split-half validation of columns*, which helps, to find out of the KFA djungle of absurde mass - significancies, won by chi-square tested configuration analysis, to get some harder data.

A following exemple will show how to work with the proposed method.
Broad public interest in Germany, 1998, had lead to focus on the person of a German author of novels, Martin Walser, who had got into national public attention, some of his book-pages taken psychologically to present a demonstration on the PLAT method.
One of his novels of about 280 pages has been taken, of which here are taken the examples to explain PLAT, by a sample of 6 pages at random, multivariate-configurationally analysed by PLAT method and it´s data transformation on non-parametrically and binary data will be discussed.
There had been a very controversial debate on an in Germany famous Southern-German author, Martin Walser, born in 1927, (different important prices in litterature), and had been reasonable critics on Walser, especially for his as not seen harmless or innocious pseudo objectivating German war crimes (during 2nd world war), if he wether were confabulating nor denying German guilt, when receiving this peace award at Francfort (Main), 1998.

If guilt were learned in childs parental interactions and interactions during education and within society, there were no reason to look for guilt-foregiving instances in e.g. christian churches, when mostly churches in Germany, national socialists and obeydiently all Germans during the Nazi realm had followed that input prosecuting jews and other minorities, and, learning by social environment, the German society did not train

any guilt in conditioning at that time and perpetuatingly in prejudices (S. Freud calls that conditioning „Verlötung"), when prosecuting jews and other minorities, contrarily, they had got their gouvernmentally directed reinforcements by the Nazis for such prosecuting. As children of former Nazis and their grand-children love their parents with still their history of prosecuting prejudices and stereotypes on minorities, they dislike to feel guilty of those ugly stereotypes and wether oftenly react aggressively to those, who do not agree with their images on their parents and their evil deeds, wether fall into depressions.

If Walser writes novels on German idyllic and mostly harmless German circumstances around Nazi army´s history out of personal scenarios, there obviously is a lack of educational purpose in Walsers´ litterature to show, how bad and murderish Germans had acted in those times and his pseudo-objective novels show an idyllic and harmless world, rather neo-romantically in very short, oftenly uncomplete sentences providing projective imaginations to the reader.

Walsers´ story „Seelenarbeit" (1979; transl. "soul-work" or "psychological work") mostly seems to show monologously texts of vague (unprecise) and (pseudo-objectively) not confabulating poor- or non- emotions. When he shows emotions, they are related in this text „Seelenarbeit" to a rather unprecise and confabulating context.

Authors obviously write for public and have each his own style, and oftenly express artificially and with intentionally made sentences. Thus clinically psychodiagnostically, there cannot be done any scientifical judgement on an autor´s person, from distancy, yet analytically how he writes.

The PLAT here is to show configuration analysis in analysing texts, also social-psychologically to adopt on analysing groups or clinical-psychologically on case notations and therapy-dialogue transcriptions by tape, e.g. The example given here is no clinical one in the sense of diagnosis, yet would show, how to apply PLAT on texts, significances showing a rather general line of constancies within a text, marking an apperceptive style.

Table 1
FOUR-CONFIGURATIONS

01.	+	+	+	+
02.	+	+	+	-
03.	+	+	-	+
04.	+	+	-	-
05.	+	-	+	+
06.	+	-	+	-
07.	+	-	-	+
08.	+	-	-	-
09.	-	+	+	+
10.	-	+	+	-
11.	-	+	-	+
12.	-	+	-	-
13.	-	-	+	+
14.	-	-	+	-
15.	-	-	-	+
16.	-	-	-	-

At random (by random numbers´ list), there had been chosen 9 pages out of „Seelenarbeit“ (Walser, M. 1979, 1983). Three pages of those nine have been eliminated at random, two of them had shown high significances to their configurated sentences after chi-square tests on rows of four-configurations at a first glance and did not show any significances in the four-configurated sentences after split-half validating procedure to *configuration analysis*, what seems *to very affirm the necessity of validation* tests (tab.3).

Table 2
TWO-CONFIGURATIONS

01.	+	+
02.	+	-
03.	-	+
04.	-	-

So for demonstrating the PLAT method, to describe it after configuration analysis and validation to those above mentioned six pages and it´s significances of sentences.

To start PLAT *and analysis of configuration of a text or a tape transscription, there must be defined and trained classification units and marking categories, dependant on the applied configuration model*.

As here to demonstrate had been chosen a four-configuration model (table 1), validation by split-half (of the items in two-configurations, table 2, among other possible validation methods) rather is possible, when comparing chi-square significances over the rows of four- next to twice two-configurations of the items, and *the lowest significance in each row of configurations next to split-half determines the validation level*, *if all in one row configurations were significant.*
Before starting to analyse, the method must be trained and be clear and the error probabilities must be adjusted to possibly reject naught hypothesis.
If all significant chi-squares on the sums all over the analysed sentences could indicate an apperceptive style of language of the text for interpretation.

An apperceptive redundancy quotient (ARQ) be the sum of numbers of significant sentences, divided by sum of the number of all analysed sentences.
Classification units and binaryly marking categories are to be defined before text analysis by configuration analysis, as follows, (you would find the analysed sentences, if reading

the book, or in this article just as example of novel´s page 112 with 16 highly significant sentences and among 50 sentences of page 112; after PLAT e-KFA all together significantly 89 sentences amongst not significant 186 sentences on all six pages of the example, ARQ ~ 48%; c.f. table 3; table 4):

> *Classification unit:* One whole sentence, each from the beginning of a sentence to the one point at it´s end. (Texts with mostly longer sentences and subordinated clauses are neglected here as different units, and e.g. single „Yes.“ or „No.“ injections are considered as unit).

> *Classifying and marking categories:* Here in psychological concretely to objectivate terms as related to ideal, social and emotional action, according to Ro. (At least all a novel seems to be an ideal action, so analysing ideas, and the units to classify always to be related to their recent context).

>> *A social category* (S) takes care of differentiation, *wether* the author (here in this example) acts *polylogously or polylogically* (sentences related to others, in clinical settings probably as extravertively), signed by plus (+) *or monologously* (sentences on his own, in clinical settings as introvertively), signed by minus (-) for each unit. (Even monologisations of an author can be related to other persons of the text and will be classified as polylogics).

>> *An ideal category* of semantics as intelligence and imagination has two sub-categories: *Clearness, preciseness, accuracy of language vs. confabulation.*

>>> *Preciseness and clear accuracy of language* (P) defines a sentence (unit) *as* possibly to be understood *clear-precisely* (+) *versus vague - unprecisely*, if realistically (-).

>>> *Confabulation of language* (C) defines a unit as *realistically and not confabulated* (+) *versus unrealistically and confabulated*, be it by phantasy, imagination, be it by inadequate suggestion (-).

>> *A category on emotions* (E) differs, wether there are *expressions of psychological emotions* (+), *or non expressions of emotions at all* (-) within a unit. (Valences of emotional quality within that psychological theoretical dimension of pleasant versus unpleasant are neglected for that could lead to a kind of signing neuroticism, thus here just signed, if there were emotions at all).

> *Units are to be signed on all categories*, S, P, C, E, (socially, precisely, confabulatively, emotively in columns) *binarily* with it´s relating binary terms of plus and minus (rows) to match four-configurations, (c.f. table 1). This marking of 4 categories times 2 binary (wether observed, +, or not, -) terms makes 8 binary categories (S+, S-; P+, P-; C+, C-; E+, E-) to be applied to each unit (here: to each sentence of at random selected pages).

At random selected pages 53, 95, 67, 162, 112, 127, 290, 216, 247 of the above mentioned novel (Walser, M, 1979, here: pocket book edition, 1983) *are analysed after the method of configuration analysis.*S, P, C, E signations to Walser *pages 95 and 162 did not match with signficances after split-half validation and only some significances on page 53, and the author does not join this rather not significant material, and just to continue P.L.A.T. demonstration on pages 67, 112, 127, 216, 247, and 290 and brought in ranks according to the book.*

Statistically to falsify after PLAT configuration analysis were as zero-hypothesis, there were no difference to the expert statement on this book „Seelenarbeit" by J. Kaiser, cited as: „...next to each others in Walsers´ style, there stand precisely accurate observation, the witty point, the ecstatic exuberation and the formula to match to it all..."

(Citation on back of the Walser pocket-book edition of „Seelenarbeit", here PLAT author´s translation from the German).

Much more probably than the adjusted a-error of 0,1%, and highly significant after chi-square testing and split half validating, there are three configuration rows of the configurational categories on units: $2^{nd\ row}$ S (+); P (+); C (+); E (-); ***; $6^{th\ row}$ S (+); P (-); C (+); E (-); $7^{th\ row}$ S (+); P (-); C (-); E (+); and relational or *binary central tendency* of the sum over these significant rows *shows as statistical highly significant style-tendency* by Walser $\square^{2nd,\ 6th,\ 7th\ row} \approx$ *S (+); P (-); C (+); E (-)*, or configuration 6: + - + -. Configurations

and their rows of frequencies and significances are marked in columns to the pages of the novel „Seelenarbeit“ and row-sums again are tested by chi-square, as table 3 shows.

Thus, probably the apperceptive style (after at random spot-check of just about 2 % of the book) gives an impression of significant polylogics in the monologous form of the novel, (yet assumingly rather ambiequally or if considering a lonesome writer, probably rather introverted while writing), *in relative binary tendency rather highly - significantly unprecise even if there were high – significances on precise formulations, rather highly - significantly realistical than confabulating, and rather lack of emotions than showing emotions. Besides tendency yet significantly there appears also a combination of polylogously shown emotions, while coincidentally unprecise and confabulating in ploylogous sentences, when expressing feelings. Relative binary central tendency seems to appear significantly in polylogics, unprecise formulations, not confabulating and not showing emotions as the writers apperceptive style* (possibly with literary upset).

A quotient by all, sum of significant sentence-configurations divided in sum of all analysed sentences, may show stilistically apperceptive redundancy (extrapolately nearly half of the book, ARQ ≈ 0,48; c.f. table 3). One could assume, wether there had stood a computing automate asides the author, preformulating and producing persistantly redundantly configurations of a significant plus-minus-plus-minus pattern of semantical input in linguistical varieties as reflecting the language of the numb average muffle´s redundant actional constancies, who finds a mirror on himself in this rather boring text of psychical garbage alike of plus-minus-plus-minus structure, logically inconsistent yet obviously rather differing to esteemed statistical internal consistency, playing checkers against himself.
And this literary style, which seems to produce assumed similarity, sympathy and attraction (known as social-psychological concepts, c.f. Byrne, D., 1971, etc.) and could explain M. Walser´s and his publications (of nearly Karl May like quantity yet not quality) attraction by those masses of to a large public in Germany.

Sometimes, psychologically to make sense, there could be looked up for the context of not significant sentences (or pages, or sessions, or seasons) between significant sentences (or pages, or sessions, or seasons) and effects over the time, which with this single literary example is not done explicitely, yet can help a psychologist to prudent

interpretation by PLAT method, rather alike as experienced psychologists do keep on the surface of the discurse, and not to focus on unsignificant details, just scarcely to put in some conflictous words between a significant average surface constancy, sometimes similarily to hypnotical interspersing. Redundant plus-minus-plus-minus structures seem to minmize stress, when scarcely conflicting items are put between. The scientific phantasm, data would tell everything, may be to reject.

The above naught hypothesis, cited comment by J. Kaiser could be falsified, if „precise accurate observation", brought onto a common formula, as this analysis shows also by binary tendency of configurative structures of apperceptive redundancy, if „precise" or „accurate expression" meant a relation to „observation", yet the sign or a sentence is not the signed or observed, according to structuralism.

Even the same PLAT method, wether the diagnostical aim in psycholinguistics to find out an authors´ apperceptive style or to interprete notations clinically psychologically in the context of anamnesis and etiology can lead to different results and this test rather could generate diagnostical hypotheses (and not so enthusiastically for differentiation of narcicism, psychosis and psychopathia, rather than for neurosis as emotinal qualities are not classified).
It must be warned of an engeneering or technocratically like over-interpretation of testings by this method, especially of grid methods with no other and further validations, even if J. Stalin had called
writers of literature „psycho-engineers" (and not to translate „Seelenarbeit" als „psycho-engineering"): And even if reliability were not sufficiently for validation, yet necessarily, even if there were objectivity of data, which not always could be reached, when classifying, especially without study and training.

Table 3 in the following shows the exemplarily results by PLAT on the demonstration subject as configuration frequencies (rows) of pages (columns) and it´s split-half validated chi-square significancies within the columns. The sum columns are chi-square tested again to show significancies over all check-spot of 6 pages (ca. 2% of book), showing an apperceptive redundancy-quotient (ARQ) of 89/186 ≈ 0,48.

Table 3: six pages with configuration frequencies of sentences

and it´s chi-square significances about alpha error probability, < 0,1%, to 89 by 186 sentences

page:	67	112	127	216	247	290	Σ	χ^2	$\chi^2_{(0,1)}$	Σ signif.
conf. no.										
01. ++++	1	2	1	0	2	3	9	~	~	~
02. +++-	20***	11***	3	0	7***	4	45	92	21	38***
03. ++-+	0	2	0	0	0	0	2	~	~	~
04. ++--	2	1	0	0	1	0	5	~	~	~
05. +-++	2	7	1	0	1	1	12	~	~	~
06. +-+-	0	16***	11***	2	6	13***	48	96	21	40***
07. +--+	0	0	1	2	0	0	3	~	~	~
08. +---	7	6	5	11***	1	4	34	44	21	11***
09. -+++	0	0	0	0	0	0	0	~	~	~
10. -++-	0	0	2	0	2	0	4	~	~	~
11. -+-+	0	0	0	0	0	0	0	~	~	~
12. -+--	0	0	0	0	1	0	1	~	~	~
13. --++	0	0	0	0	0	1	1	~	~	~
14. --+-	0	3	1	3	2	3	12	~	~	~
15. ---+	0	0	0	2	0	0	1	~	~	~
16. ----	1	2	2	2	0	1	8	~	~	~
. Σ	33	50	27	22	24	30	186	~	~	89***

This is no „Walser test“, yet demonstration of PLAT on about 2% sample at random of only one of Walsers´ many books and shows here with high statistical probability an over all significant structure of plus-minus-plus-minus. Even valid to the above testing, there always were the question on reliability of data, also to apply PLAT in psychological research and practice. Wether results in practice were reliably or not, could be done by re - testings. A kind of „re - testing“ could be, to look up for further litterature (notices of sessions), by marking and analysing tapes and video tapes on discussions and sessions. After t.v. interviews and discussions with Walser, obviously that plus-minus-plus-minus structure also in his argumentation in vivo seems reliably (a testing method could be to classify a video and apply PLAT).

Table 4: Short example on 6 highly significant sentences

to configuration no 6:

+ - + - ; or: (S+); (P-); (C+); (E-);

on page 112 (c.f. column tab.3) of „Seelenarbeit“ by M. Walser

(here PLAT-author´s translation from the German)

sentence no.

03: „We´d always like to be a star to somebody.“ ***

06: „Hurry up, come on!“ ***

17: „For I can´t imagine, you really must help me!“ ***

18: „Yes.“ ***

19: „No.“ ***

20: „That will prickle you.“ ***

27: „Your wife, at least.“ ***

34: „Well, dear Mr. Zürn, from me you won´t get any gramme of medicine.“ ***

35: „I shall not damage public economy, instead of saving you from self-confrontation.“ ***

36: „You must m e e t yourself.“ ***

37: „You may not wait for your wife.“ ***

38: „Probably, your mother has caused your recent constitution.“ ***

40: „No.“ ***

46: „Belladonna.“ ***

48: „And change for a while to get m e a t.“ ***

When Sigmund Freud introduced his important work on „psychopathology of the everyday´s life“ by citation of J.W. Goethe´s „Walpurgisnacht“ out of his drame „Faust“, the air beeing full of magic and no-one knew how to avoid, this citation can be completed according to the text as to banish magic on it´s path. For millennia, old science could not explain the lightning in the air, always a theme in literature (c.f. W. Shakespeare, „Macbeth“, prologue of the witches), this explanation insufficiency resolved by modern

physical science on electricity. Thus, to banish magic, as considering a scientifical approach, science has to „count as you can“ (F. Galton).
And sience has to share with fairness, starts and aims and the methods to reach an aim by rule- and goal-directed behaviour. That may be, for scientists look to categorise, nearly like the father to the German democratic sport mouvement F.L. Jahn (1778 - 1852) had postulated as aim of sport „frisch, fromm, fröhlich, frei“ („F-F-F-F: fresh, pious, merry, free“), to which rather less to operationalise objectively even experts´ ratings after impression to those categories also binarily could be given to calculate with after PLAT-method. Another example for PLAT-method were, to analyse ratings on restaurants, bars, hotels, etc., like quality of meals, quality of drinks, quality of service and quality of the ambience.

As an *important step foreward to modern psycho-diagnostics* there is considered the famous *projective test by Hermann Rorschach* (1931, also H. Zulliger, 1951), if it to binarily categorising answers to his inkblots were possible. *As at Rorschach-test at least could be found 8 main categories* (here presented and binarily classified), which can turn binarily, if some put together, and it seems rather possible to adopt PLAT very practical and rather appropriately to Rorschach-test by four-configuration patterns only, even if took just those main and put together categories, if there turned out an eight-configuration pattern of 256 rows (c.f. page 19 f). *Yet those eight-configuration patterns of 256 rows liberately to split in twice four-configuration patterns, rather could serve practical reality to apply mathematics by PLAT paper and pencil procedure to Rorschach-test evaluation*, because there is possibility of split-half validation of four-configurations with 16 rows „only“ (one also could more unpractically even do it with eight configurations and it´s 256 rows). If put together twice four-configurations on Rorschach and comparing it´s twice two-configuration split-half validated significancies, *there rather turned out a more statistical valid and significant treatment of Rorschach-test, to practicioners aside conventional evaluation, on an appropriate level of generation significant diagnostical hypotheses on Rorschach-test configuration analysis by* PLAT *and it´s mathematical „projection“, very rapidly to calculate. If Rorschach eight-configuration pattern, by here presented 8 diagnosting categories after Rorschach, were splitted into just twice 4-configurations to be validated by split-half row comparision on it´s all over rows (twicely 4 with 2 with 2) columns, the lowest significancy would determine the level of significance of one row. By split-half, you go down in number of configurations. To validate all 8 categories, you should go up and double comparision,*

as mathematical projection just the other way round or an upside down to split-half validation turned again with the new level of compared significancies on a higher configuration step. The idea behind the here *mathematical projection* is, to put all your results on four configurations after the above *twice 4 categorisations with their proper rows next to each other after the 8-configuration pattern in appendix (pp. 19 ff) with all those twice 4-categorisations and it´s 256 rows to compare, wether all over one or more 8-columns should be significances in one row, arranged in that bigger 8-configuration matrix. The lowest level of significance all over one row determines it´s all significance.* This way you could reach diagnostical hypotheses by Rorschach-test above level of esoterics. To collect enough material to calculate with, there should be proposed at least four testing sessions by all 10 Rorschach inkblot tables.

After PLAT author´s experience als psychologist and clinical psychologist, categories according to Rorschach units of marking and signation to projective utterings by notations or transscriptions, there could be combined as categories to *twice four-configuration patterns*. There must be warned again to over-interprete PLAT like won data, and Rorschach-test is much too best, to be abused by esoterics, social-workers and social-pedagogues and other dilettants, even if trained without full study of psychology.

The here presented binary categories to probandi, describing interpretations of Ro - tables are:

> TS: „Gesamterfassung“ (shape of total description) together with clearness of description of shape to an inkblot-card, Rorschach´s „Formschärfe“ (F), wether „formscharf“ (+) as precisely in description (high intelligence), or „formunscharf“ (-) as unprecisely in description (confabulation);

> DS: „Detailerfassung“ (shape of detail), description of details and it´s shape-preciseness, wether („formscharf“) precisely (rather intelligent) in description (+), or („formunscharf“) unprecisely (confabulatoric or detail ologophrenic) in description (-);

> C: „Farbdeutung“ as coulor interpretation, wether (extravert, signif. coulour interpretation only, as uncontrolled impulsivity) coulour interpretation (+), or non colour interpretation, „betweens“ (indicating ambition) and also black-and-whites (-);

> *M: „Bewegungsdeutung“ as interpretation of movement,* wether (introvert) projective interpretation of mouvement (+) or not (-);

> *P: „Perseveration“* (as index towards epilepsia) in repeating contents of spontanous interpretations (+), versus non perseveration and originality (-);

> *Ob: „Objects“* human and human-like beeings and animals and things (rather mature) in interpretation (+) versus animals or things, landscapes, (rather non mature), etc. (-);

> *Ps: „Psychosis“*, paranoia as indicated by eye-interpreatations, or/and if not oligophrenous also confabulations as schizophrenic/schizoid (+) versus non eye nor confabulative interpretations (-);

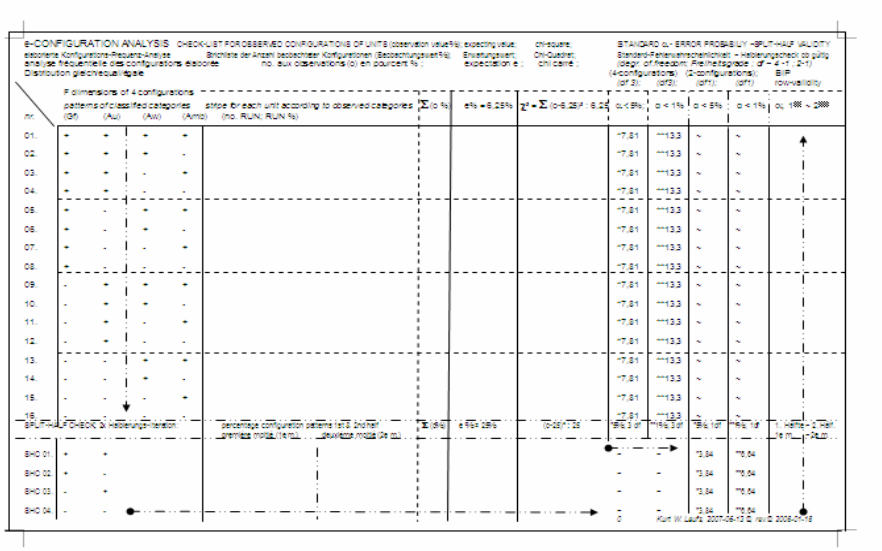
> *V: „Vulgarity“* on unpolite and piggy-porky interpretations (+) versus nice and originally given interpretations (-).

8 diagnostical binary categories (to sign +, wether observed; to sign -, wether not observed) after above classification to twice 4-configurations, to an individual standard matrix of 8-configurations (appendix), matematically projectively were:

I. (TS; DS; C; M); II. (P; Ob; Pa; V).

Many scientists´ of psychology „dream“ were, to standardise Rorschach-test. Perhaps the PLAT shows a way to collect necessary data and shows patterns how to possibly treat those Rorschach individual standards statistically.
Appendix shows some more ways, how to work by PLAT, also by table on pages 19ff as appropriate check-list (to algorhythm) for practitioners. The appendix will show an eight configuration pattern for here Ro-categories and even any other twicely four as eight categorised 8-configurations (combinations) practically to compare significances by twice four-patterns and it´s validation.

Table: algorhythm to percentage e-KFA



Annotation by Kurt-Wilhelm Laufs:

Really logical erudite women deny in front of men to be able in logical thinking. New logics, or "formal logics" really are rather complicated for men, even. Gödel-Frege paradox rather formalizes no decision to make at paradox in logics, when infinitesimal problem occurs. Rather appropriate to Immanuel Kant's paralogism of "simplicity" (rather to be transladed into English as "appropriateness"), combinatorics appear to approximate logics. Obviously those plus-minus structures are rather more approprietely to apply to categories, as dimensions (more than those common three of broadth, length and highth in physics, where in modern times had begun to problematize light and warmth as further dimensions of materia and wave) in a sense of "hyper-dimensions". Taken "hyperdimensions" as "variables", factor analysis could bundle (order) to individual analysis structures, never to neglect "simplicity" of Chi-Square ("kiki") in both directions of statistical questions, even when starting with naught hypothesis (Carl Raimund Popper, 1934) or general naught hypothesis (Ludwig Wittgenstein), always to be considered Alpha fault probability.

At probably ad infinitum, here described e.g. to those Rorschach combinatoric categories, or combinatorics as hyperdimensions, to e.g. logical systems could be transformed for gathering vectorial regressions by factor analysis and bundled by rotation(s), as appendix table for digitalized Rorschach table test shows. Interpolizing hand calculation method (algorythm table on elaborated configuration frequency analysis, e-KFA, by percentage chi-aquare and intercorrelations to percentages to control reliability of types or factors) can be controllingly compared to factor analyses, rather well approached by e-KFA that is no Cochran test. (Register combinatorics, c.f. church or orchestra organ, c.f. scholastic

philosopher and mathematician Lullus may help for better understanding of register combinatorics).

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Please, look also for appendix „Why e-KFA“, too!

Author & ©: Kurt-Wilhelm Laufs, ©, Dipl. Psych. DP (phil. & min. med. fac.), cum facultate docendi, church counsillour, i. R.,
clinical psychologist, and social psychologist, psychotherapist DPA, privy scholar,
born at Krefeld, British-Rhine, 1948
update 2016-02-23, ©

Following: appendix of combinatorics of 8-configuration patterns to Ro dimensions, (categories):
Table: Standard Eight-Configuration Comparision-Matrix to mathematical Projection
(Rorschach column categories/dimensions binarily after pages 14 and 15, to mathematical „projection“ comparision-values)

No.	TS	DS	C	M	P	Ob	Ps	V	No.s of validated 4-config. rows twice	signif.
001	+	+	+	+	+	+	+	+		
002	+	+	+	+	+	+	+	-		
003	+	+	+	+	+	+	-	+		
004	+	+	+	+	+	+	-	-		
005	+	+	+	+	+	-	+	+		
006	+	+	+	+	+	-	+	-		
007	+	+	+	+	+	-	-	+		
008	+	+	+	+	+	-	-	-		
009	+	+	+	+	-	+	+	+		
010	+	+	+	+	-	+	+	-		
011	+	+	+	+	-	+	-	+		
012	+	+	+	+	-	+	-	-		
013	+	+	+	+	-	-	+	+		
014	+	+	+	+	-	-	+	-		
015	+	+	+	+	-	-	-	+		
016	+	+	+	+	-	-	-	-		
017	+	+	+	-	+	+	+	+		
018	+	+	+	-	+	+	+	-		
019	+	+	+	-	+	+	-	+		
020	+	+	+	-	+	+	-	-		
021	+	+	+	-	+	-	+	+		
022	+	+	+	-	+	-	+	-		
023	+	+	+	-	+	-	-	+		
024	+	+	+	-	+	-	-	-		
025	+	+	+	-	-	+	+	+		
026	+	+	+	-	-	+	+	-		
027	+	+	+	-	-	+	-	+		
028	+	+	+	-	-	+	-	-		
029	+	+	+	-	-	-	+	+		
030	+	+	+	-	-	-	+	-		
031	+	+	+	-	-	-	-	+		
032	+	+	+	-	-	-	-	-		
033	+	+	-	+	+	+	+	+		
034	+	+	-	+	+	+	+	-		
035	+	+	-	+	+	+	-	+		
036	+	+	-	+	+	+	-	-		
037	+	+	-	+	+	-	+	+		
038	+	+	-	+	+	-	+	-		
039	+	+	-	+	+	-	-	+		
040	+	+	-	+	+	-	-	-		
041	+	+	-	+	-	+	+	+		
042	+	+	-	+	-	+	+	-		
043	+	+	-	+	-	+	-	+		
044	+	+	-	+	-	+	-	-		
045	+	+	-	+	-	-	+	+		
046	+	+	-	+	-	-	+	-		
047	+	+	-	+	-	-	-	+		
048	+	+	-	+	-	-	-	-		
049	+	+	-	-	+	+	+	+		
050	+	+	-	-	+	+	+	-		
051	+	+	-	-	+	+	-	+		
052	+	+	-	-	+	+	-	-		
053	+	+	-	-	+	-	+	+		
054	+	+	-	-	+	-	+	-		
055	+	+	-	-	+	-	-	+		
056	+	+	-	-	+	-	-	-		
057	+	+	-	-	-	+	+	+		
058	+	+	-	-	-	+	+	-		
059	+	+	-	-	-	+	-	+		
060	+	+	-	-	-	+	-	-		
061	+	+	-	-	-	-	+	+		
062	+	+	-	-	-	-	+	-		
063	+	+	-	-	-	-	-	+		
064	+	+	-	-	-	-	-	-		

Fill in under „numbers of validated 4-configuration rows twice“ both numbers of split-half (two-configurationally) validated four-configurations and compare significances.

No.	TS	DS	C	M	P	Ob	Ps	V	No.s of validated 4-config. rows twice	signif.
065	+	-	+	+	+	+	+	+		
066	+	-	+	+	+	+	+	-		
067	+	-	+	+	+	+	-	+		
068	+	-	+	+	+	+	-	-		
069	+	-	+	+	+	-	+	+		
070	+	-	+	+	+	-	+	-		
071	+	-	+	+	+	-	-	+		
072	+	-	+	+	+	-	-	-		
073	+	-	+	+	-	+	+	+		
074	+	-	+	+	-	+	+	-		
075	+	-	+	+	-	+	-	+		
076	+	-	+	+	-	+	-	-		
077	+	-	+	+	-	-	+	+		
078	+	-	+	+	-	-	+	-		
079	+	-	+	+	-	-	-	+		
080	+	-	+	+	-	-	-	-		
081	+	-	+	-	+	+	+	+		
082	+	-	+	-	+	+	+	-		
083	+	-	+	-	+	+	-	+		
084	+	-	+	-	+	+	-	-		
085	+	-	+	-	+	-	+	+		
086	+	-	+	-	+	-	+	-		
087	+	-	+	-	+	-	-	+		
088	+	-	+	-	+	-	-	-		
089	+	-	+	-	-	+	+	+		
090	+	-	+	-	-	+	+	-		
091	+	-	+	-	-	+	-	+		
092	+	-	+	-	-	+	-	-		
093	+	-	+	-	-	-	+	+		
094	+	-	+	-	-	-	+	-		
095	+	-	+	-	-	-	-	+		
096	+	-	+	-	-	-	-	-		
097	+	-	-	+	+	+	+	+		
098	+	-	-	+	+	+	+	-		
099	+	-	-	+	+	+	-	+		
100	+	-	-	+	+	+	-	-		
101	+	-	-	+	+	-	+	+		
102	+	-	-	+	+	-	+	-		
103	+	-	-	+	+	-	-	+		
104	+	-	-	+	+	-	-	-		
105	+	-	-	+	-	+	+	+		
106	+	-	-	+	-	+	+	-		
107	+	-	-	+	-	+	-	+		
107	+	-	-	+	-	+	-	-		
109	+	-	-	+	-	-	+	+		
110	+	-	-	+	-	-	+	-		
111	+	-	-	+	-	-	-	+		
112	+	-	-	+	-	-	-	-		
113	+	-	-	-	+	+	+	+		
114	+	-	-	-	+	+	+	-		
115	+	-	-	-	+	+	-	+		
116	+	-	-	-	+	+	-	-		
117	+	-	-	-	+	-	+	+		
118	+	-	-	-	+	-	+	-		
119	+	-	-	-	+	-	-	+		
120	+	-	-	-	+	-	-	-		
121	+	-	-	-	-	+	+	+		
122	+	-	-	-	-	+	+	-		
123	+	-	-	-	-	+	-	+		
124	+	-	-	-	-	+	-	-		
125	+	-	-	-	-	-	+	+		
126	+	-	-	-	-	-	+	-		
127	+	-	-	-	-	-	-	+		
128	+	-	-	-	-	-	-	-		

Fill in under „numbers of validated 4-configuration rows twice“ both numbers of split-half (two-configurationally) validated four -configurations and compare significances

No.	TS	DS	C	M	P	Ob	Ps	V	No.s of validated 4-config. rows twice	signif.
129	-	+	+	+	+	+	+	+		
130	-	+	+	+	+	+	+	-		
131	-	+	+	+	+	+	-	+		
132	-	+	+	+	+	+	-	-		
133	-	+	+	+	+	-	+	+		
134	-	+	+	+	+	-	+	-		
135	-	+	+	+	+	-	-	+		
136	-	+	+	+	+	-	-	-		
137	-	+	+	+	-	+	+	+		
138	-	+	+	+	-	+	+	-		
139	-	+	+	+	-	+	-	+		
140	-	+	+	+	-	+	-	-		
141	-	+	+	+	-	-	+	+		
142	-	+	+	+	-	-	+	-		
143	-	+	+	+	-	-	-	+		
144	-	+	+	+	-	-	-	-		
145	-	+	+	-	+	+	+	+		
146	-	+	+	-	+	+	+	-		
147	-	+	+	-	+	+	-	+		
148	-	+	+	-	+	+	-	-		
149	-	+	+	-	+	-	+	+		
150	-	+	+	-	+	-	+	-		
151	-	+	+	-	+	-	-	+		
152	-	+	+	-	+	-	-	-		
153	-	+	+	-	-	+	+	+		
154	-	+	+	-	-	+	+	-		
155	-	+	+	-	-	+	-	+		
156	-	+	+	-	-	+	-	-		
157	-	+	+	-	-	-	+	+		
158	-	+	+	-	-	-	+	-		
159	-	+	+	-	-	-	-	+		
160	-	+	+	-	-	-	-	-		
161	-	+	-	+	+	+	+	+		
162	-	+	-	+	+	+	+	-		
163	-	+	-	+	+	+	-	+		
164	-	+	-	+	+	+	-	-		
165	-	+	-	+	+	-	+	+		
166	-	+	-	+	+	-	+	-		
167	-	+	-	+	+	-	-	+		
168	-	+	-	+	+	-	-	-		
169	-	+	-	+	-	+	+	+		
170	-	+	-	+	-	+	+	-		
171	-	+	-	+	-	+	-	+		
172	-	+	-	+	-	+	-	-		
173	-	+	-	+	-	-	+	+		
174	-	+	-	+	-	-	+	-		
175	-	+	-	+	-	-	-	+		
176	-	+	-	+	-	-	-	-		
177	-	+	-	-	+	+	+	+		
178	-	+	-	-	+	+	+	-		
179	-	+	-	-	+	+	-	+		
180	-	+	-	-	+	+	-	-		
181	-	+	-	-	+	-	+	+		
182	-	+	-	-	+	-	+	-		
183	-	+	-	-	+	-	-	+		
184	-	+	-	-	+	-	-	-		
185	-	+	-	-	-	+	+	+		
186	-	+	-	-	-	+	+	-		
187	-	+	-	-	-	+	-	+		
188	-	+	-	-	-	+	-	-		
189	-	+	-	-	-	-	+	+		
190	-	+	-	-	-	-	+	-		
191	-	+	-	-	-	-	-	+		
192	-	+	-	-	-	-	-	-		

Fill in under „numbers of validated 4-configuration rows twice“ both numbers of split-half (two-configurationally) validated four-configurations and compare significances

No.	TS	DS	C	M	P	Ob	Ps	V	No.s of validated 4-config. rows twice	signif.
193	-	-	+	+	+	+	+	+		
194	-	-	+	+	+	+	+	-		
195	-	-	+	+	+	+	-	+		
196	-	-	+	+	+	+	-	-		
197	-	-	+	+	+	-	+	+		
198	-	-	+	+	+	-	+	-		
199	-	-	+	+	+	-	-	+		
200	-	-	+	+	+	-	-	-		
201	-	-	+	+	-	+	+	+		
202	-	-	+	+	-	+	+	-		
203	-	-	+	+	-	+	-	+		
204	-	-	+	+	-	+	-	-		
205	-	-	+	+	-	-	+	+		
206	-	-	+	+	-	-	+	-		
207	-	-	+	+	-	-	-	+		
208	-	-	+	+	-	-	-	-		
209	-	-	+	-	+	+	+	+		
210	-	-	+	-	+	+	+	-		
211	-	-	+	-	+	+	-	+		
212	-	-	+	-	+	+	-	-		
213	-	-	+	-	+	-	+	+		
214	-	-	+	-	+	-	+	-		
215	-	-	+	-	+	-	-	+		
216	-	-	+	-	+	-	-	-		
217	-	-	+	-	-	+	+	+		
218	-	-	+	-	-	+	+	-		
219	-	-	+	-	-	+	-	+		
220	-	-	+	-	-	+	-	-		
221	-	-	+	-	-	-	+	+		
222	-	-	+	-	-	-	+	-		
223	-	-	+	-	-	-	-	+		
224	-	-	+	-	-	-	-	-		
225	-	-	-	+	+	+	+	+		
226	-	-	-	+	+	+	+	-		
227	-	-	-	+	+	+	-	+		
228	-	-	-	+	+	+	-	-		
229	-	-	-	+	+	-	+	+		
230	-	-	-	+	+	-	+	-		
231	-	-	-	+	+	-	-	+		
232	-	-	-	+	+	-	-	-		
233	-	-	-	+	-	+	+	+		
234	-	-	-	+	-	+	+	-		
235	-	-	-	+	-	+	-	+		
236	-	-	-	+	-	+	-	-		
237	-	-	-	+	-	-	+	+		
238	-	-	-	+	-	-	+	-		
239	-	-	-	+	-	-	-	+		
240	-	-	-	+	-	-	-	-		
241	-	-	-	-	+	+	+	+		
242	-	-	-	-	+	+	+	-		
243	-	-	-	-	+	+	-	+		
244	-	-	-	-	+	+	-	-		
245	-	-	-	-	+	-	+	+		
246	-	-	-	-	+	-	+	-		
247	-	-	-	-	+	-	-	+		
248	-	-	-	-	+	-	-	-		
249	-	-	-	-	-	+	+	+		
250	-	-	-	-	-	+	+	-		
251	-	-	-	-	-	+	-	+		
252	-	-	-	-	-	+	-	-		
253	-	-	-	-	-	-	+	+		
254	-	-	-	-	-	-	+	-		
255	-	-	-	-	-	-	-	+		
256	-	-	-	-	-	-	-	-		

Fill in under „number of validated 4-configuration rows twice both numbers of split-half (two-configurationally) validated four-configurations and compare significances