The humble checklist, while no one would deny its utility in evaluation and elsewhere, is usually thought to fall somewhat below the entry level of what we call a methodology, let alone a theory. But many checklists used in evaluation incorporate a quite complex theory, or at least a set of assumptions, which we are well advised to uncover; and the process of validating an evaluative checklist is a task calling for considerable sophistication. Indeed, while the theory underlying a checklist is less ambitious than the kind that we normally call a program theory, it is often all the theory we need for an evaluation.

This memo covers some of the basic features of checklists and their application in evaluation, but it does not claim to exhaust their logic or methodology.

Basic Types

A checklist is taken here to be a list of factors, properties, aspects, components, criteria, tasks, or dimensions, the presence, referent, or amount of which are to be considered separately, in order to perform a certain task. There are many different types of checklist, although they have at least one nondefinitional function in common—that of being a mnemonic device. This function alone makes them useful in evaluation, since the nature of professional evaluation calls for a systematic approach to determining the merit, worth, etc., of what are often complex entities. Hence, a list of the many components, or dimensions of merit or performance, of such entities is frequently valuable. To judge from the results, even professional evaluators often forget key elements that should be included in systematic evaluations.

1. Checklists are of various kinds: at the bottom of the checklist peck order, there is the eponymous laundry list, a set of categories (shirts, sox, shorts, etc.) that is almost entirely a mnemonic device and very useful just for that reason. Notice that the order in which one calls on the items on a laundry list does not affect its validity: we can just start by entering on the list whatever items are at the top of the laundry pile.

But the entry of entities into the right category on the list is crucial—to avoid the pragmatic equivalent of coding errors in empirical data entry. And the grouping of items, when constructing the list, is often quite important, e.g., shirts with possibly bleeding colors need to be kept separate from white shirts. Of course, a real laundry list is not an evaluative list; but plenty of “laundry lists” are useful in evaluation, and one of these is given later.

2. Next is the sequential checklist, where the order does matter. The first kind of these is what we might call the strongly sequential kind, where the sequencing (of some or all checkpoints) must be followed in order to get valid results. One example of this is the preflight checklist, whose use is compulsory, not merely recommended, for the flight crews on aircraft carrying hundreds of thousands of passengers a day. It is sequential because, for example, the accuracy of reading
instrument A depends on whether or not the setting on instrument A has been zeroed, so one must do the setting before the reading. The use of the preflight checklist is evaluative because it is designed to provide support for the evaluative conclusion that the plane is (in certain crucial respects) in good enough condition to fly safely: (almost) every checkpoint on the list is a necessary condition for safe operation. Many sequential checklists, however, are not intrinsically evaluative, although they might be used in the course of an evaluation. Flowcharts often imply one or more sequential checklists, but they are often a better way to represent complex inference chains that involve extensive conditionals (i.e., “if-then” statements) as well as sequences.

3. A **weakly sequential checklist** is one where the order is of some importance, but for psychological or efficiency reasons rather than from logical or physical necessity. Example: In the early days of the development of *The Program Evaluation Standards*, Dan Stufflebeam recalls Lee Cronbach making a strong argument that the first group of these standards should not be the Accuracy ones that were the obvious candidates, but the Utility ones, because—as Cronbach saw it—people were getting tired of evaluations that might be accurate but showed every sign of being, and usually turned out to be, useless. Convince them that evaluations were going to be useful, he argued, and you would get their attention when you turned to matters such as accuracy. Efficiency considerations can also suggest a certain ordering within a checklist. For example, if experience reveals that a required level of performance on a particular dimension of merit—perhaps a certain minimum productivity figure—is the one most commonly failed by candidates in a recurrent competition, efficiency suggests putting it first in the order, since that will eliminate the need to spend time and possibly other resources checking out the performance on other criteria of those candidates that flunk this requirement. Again, this will be a weakly ordered (sequential) checklist.1

4. An **iterative checklist** is sequential, in whole or part, but requires—or may require—multiple passes in order to reach a stable reading on each checkpoint. The Key Evaluation Checklist (KEC), one of those provided at The Evaluation Center’s Checklists Web site,2 is iterative. It’s sequential when used for evaluating a program, because it places the Cost checkpoint ahead of the Comparisons checkpoint; until one has determined the cost of something, it’s hard to determine what alternatives to it should be considered. But, after going further down the checklist, one may be led to think of still further alternatives for the comparison group. This does no harm. In contrast with the situation in the strongly sequential preflight checklist, one can still correct the tentative conclusions on the Comparisons checkpoint. Hence, the KEC is not strongly, but weakly sequential, and it’s iterative because one typically goes through it more than once.

5. Another type of checklist, one that is sometimes but not always sequential, is based on flowcharts. This is the **diagnostic checklist** that is used—for example— by taxonomists, mechanics, and toxicologists. It typically supports a classificatory kind of conclusion—one that may be descriptive or evaluative. It may be evaluative because the checklist is explicitly evaluative, 

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1 This point is applied to evaluations using the Fire at the Horses First rule, covered under that heading in *Evaluation Thesaurus* (Scriven, 1991).

2 At evaluation.wmich.edu/checklists
e.g., a trouble-shooting list whose conclusions are necessarily faultfinding and hence evaluative (“The problem with this engine seems to be that the fuel injector nozzles are seriously worn”; “The culprit in this death seems to be heart failure”). The checklist itself may not be evaluative, but the context of use justifies certain types of evaluative conclusions, e.g., “This specimen is too badly damaged to make a final classification possible.” It is worth noting that the diagnostic checklist, although it may not be couched in theoretical terms itself, often leads us to causal conclusions because it is often theory-based under the surface (e.g., based on a limited theory about the modus operandi of a poison).

6. Probably the most important kind of checklist for evaluation purposes is the criteria of merit checklist (hence, COMlist or, here, comlist). This is what judges use when rating entries in a skating or barbeque or farm produce competition; it’s what the evaluator uses—or should be using—for evaluating teachers or researchers or colleges or requests for funding (or, for that matter, when teachers or researchers are evaluating evaluations and evaluators). A number of comlists are available from the Checklists Web site (at evaluation.wmu.edu); for example, some for evaluating teachers, one for evaluating systems for evaluating teachers, and one for evaluating evaluations.

Comlists are widely used as the basis for a particular scoring procedure. The criteria are given weights for importance (e.g., on a 1-5 scale), the candidates are given performance scores on a standard scale (e.g., 1-10) for each dimension, and the sum of the products of the weights (of each criterion) by the performance (on that dimension) for each candidate is used as the measure of merit. However, comlists can be used with benefit without using this particular scoring procedure (the “numerical weight and sum” or NWS procedure), so their value is (fortunately) not dependent on the known invalidity of that scoring procedure.

The comlist is often a tough item to develop and validate: It has to meet some stringent requirements that do not apply to the simpler types of checklist discussed so far. For example, it is essential that it is complete or very close to complete, i.e., that it include every significant criterion of merit. Otherwise, something that scores well on it may in fact be quite inferior because of its poor performance on some missing but crucial dimension of merit. Again, the criteria in a comlist should not overlap if it is to be used as a basis for scoring to avoid “double-counting” of the overlap area.

Before going into more details about the logic of comlists, however, we have by now covered enough examples to support some general conclusions on the pragmatic side, worth mentioning before the hard work starts. (In what follows, the term “evaluand” is occasionally used to refer to whatever is being evaluated.)

3 At “the Royal” in Kansas City—the crown of the competitive BBQ season, where only winners of the major regionals are eligible to enter—the judges use one of the simplest examples of a decision controlling comlist. All entries (called “Qs”) are rated on (1) appearance, (2) tenderness, and (3) taste, with equal weight to each.
The Value of Checklists

1. Checklists are mnemonic devices, i.e., they reduce the chances of forgetting to check something important. Thus, they reduce errors of omission directly and errors of commission indirectly, if one includes decisions made on the basis of checklists.

2. Checklists in general are easier for the lay stakeholder to understand and validate than most theories or statistical analyses. Since evaluation often is required to be credible to stakeholders as well as valid by technical standards, this feature often is useful for evaluators.

3. Checklists in general, and particularly comlists, reduce the influence of the halo effect, i.e., the tendency to allow the presence of some highly valued feature to overinfluence one’s judgment of merit. Checklists do this by forcing the evaluator to consider separately and allocate appropriate merit to each relevant dimension of possible merit. Notes: (i) they do not eliminate the use of holistic considerations, which can be listed as separate criteria of merit; (ii) halo effect is still possible, so order should be considered carefully to reduce it. This is a further reason for (weak) ordering of checklists.

4. Comlists reduce the influence of the Rorschach effect, i.e., the tendency to see what one wants to see in a mass of data. They do this by forcing a separate judgment on each dimension and a conclusion based on these judgments.

5. The use of a valid comlist eliminates the problem of double weighting when using an informal list.

6. Checklists often incorporate, in an economical format, huge amounts of specific knowledge about the particular evaluands for which they have been developed. Look at the Stufflebeam checklist for evaluation contracts, for example: it is based on, and manifests, a vast amount of experience. Roughly speaking, this amount is inversely proportional to the level of abstraction of the items in the checklist. (Example: the preflight checklist for any aircraft is highly type specific.) Hence, checklists are a form of knowledge about a domain, organized so as to facilitate certain tasks, e.g., diagnosis, overall evaluation.

7. In general, evaluative checklists can be developed more easily than what normally are described as theories about the management of the evaluand; hence, we often can evaluate (or diagnose, etc.) where we cannot explain. (Example: yellow eyes and jaundice.) This is analogous to the situations where we can predict from a correlational relationship, although we cannot explain the occurrence of what we predict. (Example: aspirin as analgesic.) For these and some other reasons to be developed later, checklists can contribute substantially to (i) the improvement of validity, reliability, and credibility of an evaluation; and (ii) our useful knowledge about a domain. Now, we return to adding some further developments of the logic of the comlist.

Key Requirements for Comlists

Most of the following are self-explanatory and refer to the criteria or checkpoints that make up a comlist:

1. The checkpoints should refer to criteria and not mere indicators (explained below).
2. The list should be **complete** (no significant omissions).

3. The items should be **contiguous**, i.e., nonoverlapping (essential if the list is used for scoring).\(^4\)

4. The criteria should be **commensurable** (explained below).

And of course:

5. The criteria should be **clear** (a.k.a. comprehensible, applicable).

6. The list should be **concise** (to assist its mnemonic function); i.e., it should contain no superfluous criteria.

7. The criteria should be **confirmable** (e.g., measurable or reliably inferrable).

The first of these requirements is crucial and needs the most explanation. Suppose you are evaluating wristwatches in order to buy one for yourself or a friend. Depending on your knowledge of this slice of technology, you might elect to go in two directions. (i) You could use indirect indicators of merit, such as the brand name or the recommendations of a knowledgeable friend; or (ii) you could use criteria of merit, which essentially define the merit of this entity. (These are sometimes called direct indicators of merit or primary indicators of merit.) Their epistemological status is superior, but practically they are often less convenient, because they refer to characteristics that are both more numerous and less accessible than many indirect or secondary indicators. For example, many people think that the brand name Rolex is a strong indicator of merit in watches. If you believe that (or if you only care how the gift is perceived, not how good it is in fact), you just need a guarantee that a certain watch is a genuine Rolex in order to have settled the merit issue. That guarantee is fairly easily obtained by getting a reputable dealer to examine the interior of the watch (the amateur is easily misled by the very good imitations currently available), leaving you with only aesthetic considerations to get you to a purchase decision. However, if you want to get to the real truth of the matter without making assumptions, you will need to have (i) a comlist; (ii) good access to evidence about the performance of several brands of watch on each checkpoint in the comlist; and (iii) a valid way to combine the evidence on the several checkpoints into an overall rating. None of these is easy to get. However, the payoff is considerable, since the research-based approach quickly locates watches at about a tenth or even a hundredth of the cost of “prestige” watches that will outperform them in every respect except for “prestige.”

Of course, a conscientious evaluator can hardly rely on secondary indicators of merit with respect to the principal evaluands on which they are typically tasked to report. They are obliged to go the route of using criteria of merit, so they typically need to be good at developing (or finding and validating) comlists. This approach has its own rewards. For example, it quickly uncovers the fact that Rolex makes extremely poor watches by contemporary standards of time-keeping accuracy, or durability, or nocturnal readability—“extremely poor” means scoring at less than 25 percent of

\(^4\) It’s true that “contiguous” is less accurate than “nonoverlapping,” but alliteration assists mnemonic function and so I cheat a little.
easily achievable standards of merit on each of these—and charges several hundred to several thousand percent more for the watches than a brand that is competitive on merit. What you pay for in a Rolex, starting at several thousand dollars, is its massive advertising campaign and the snob value. Apart from the waste of money in buying one, in terms of true merit, there is also the fact—a good example of a bad side effect—that you considerably increase the chance of being robbed or carjacked.

A comlist for wristwatches or anything else you are thinking of buying may skip over the criteria for identifying a wristwatch as such—e.g., being small enough to wear on the wrist—and begins with what we can call the core comlist, defining the general notion of merit in wristwatches, to which we can add as a guide to purchase any personal or special-group preferences such as affordability, aesthetic, or snob-value considerations—the “personal criteria of merit.” In evaluating programs for some agency, the professional evaluator’s typical task, the personal criteria have no place (you’re not going to buy the program, and you’re probably not going to even use its services). Hence, we focus more closely on the core comlist. When Consumer Reports is evaluating wristwatches or other consumer products, it similarly deals only with the core comlist, leaving the rest up to the reader. Now, what does a core comlist look like for wristwatches?

1. **Accuracy.** Accuracy is on the list not just for the obvious reason that the wearer wants to have a fairly precise idea of the time. It’s also there to reduce the anxiety of not being sure whether or not one has a correct idea of the time and to reduce the number of occasions when one has to reset the watch, which requires not only that minor task, but the sometimes more troublesome task of finding a really accurate source of time to use as the standard that the watch is to match. Given those four considerations, the accuracy criterion can, roughly speaking, be taken to require a minimum accuracy of within a minute a month. Most busy people will prefer to cut this in half, which reduces the resets to about three a year (background considerations of fact include the acceptable margin of error in getting to meetings on time, making connections at airports, catching trains that run a close schedule, not missing the start of TV news programs, etc.). Idiosyncratically, others will demand something considerably better, since an accuracy of better than a second a century is now available at under $30 (in watches radio-controlled by the National Bureau of Standards). Many Japanese and German as well as Swiss movements can now manage a second a month without radio control, so one could plausibly consider a minute a year to be the maximum allowable inaccuracy for anything that is to qualify as a good watch by modern standards The Rolex is proudly advertised as “officially certified as a chronometer by the Swiss Observatory,” a standard from prequartz crystal days that is far worse than any of those just mentioned.

2. **Readable dial.** Some of Rolex’s “jewelry watches” for women are very hard to read. No such Rolexes meet modern standards of low-light readability, since their luminous paint, if they use it, fades after an hour or two. Rolex watches don’t use batteries that can provide nocturnal illumination, nor do they use the Luminox breakthrough that allows watches without batteries to be readable at night from the other side of the room and are available at midlevel prices (around $100).

3. **Durability (of watch and fittings).** Should survive dropping onto a wooden floor from 4 feet, tile or concrete from 3 feet, the most common accidents. A band should survive more than 2 years (leather usually does not), and the case should be waterproof in heavy rain. Batteries should last more than one year by current standards, especially since automatics don’t need them, running off...
the motion of the wrist, and many others are solar-powered today. Durability includes not needing frequent maintenance or repair, and Rolexes need both and charge heavily for it.

4. **Comfortable to wear.** Gold is usually too heavy, and steel comes close. A titanium case and bracelet is best.

5. **Band.** The band should be easily adjustable, without help from a jeweler (since fit depends on temperature, diet, etc.).

Each of these comlist items requires some data gathering, some of it quite difficult to arrange. To these criteria of merit, we would often need, for personal use, to add idiosyncratic requirements about appearance and features, e.g., stopwatch or alarm functions, snorkeling waterproofing, and cost.)

By contrast, we could use an indicator list (**indilist**) with items like this:

1. **Made by Rolex or some other upmarket make like Patek Philippe.** Evidence for this, easy to get, would be that it was sold by an authorized Rolex dealer, who guaranteed it in writing and by serial number. The validity of this indicator, as of any secondary indicator, is (roughly) the correlation between it and the cluster defined by the first set of six indicators. The hints provided make it clear that this correlation is low. However, before getting too set on the high horse, it’s worth remembering that there are many occasions when you can’t get at criteria of merit but you can get at indicators for them. Even when you can get both, the indicators may be much easier and/or less costly to get. But keep in mind that indicators are easily corrupted, and once it becomes known that they are being used as an indicator for something important in an evaluation, people are very ingenious about faking the score on them; you can’t do this with a criterion of merit, since it’s valid by definition.

**Criteria vs. Indicators**

Given that the path of righteousness for evaluators is the path of criteria, not indicators, how do we identify true criteria for the evaluand X? The key question to ask is this: What properties are parts of the concept (the meaning) of “a good X,” for someone who is an expert on Xs. That someone might be any competent user of the language in some cases, e.g., in determining the criteria for “a good effort at washing the dishes for dinner,” but in most cases more than linguistic competence is required. Note that not all the criteria for X are particularly relevant to the criteria of merit for X—for example, “small and light enough to be worn on the wrist” is one of the former but not productive of much in the way of the second. A criterion of merit is one that bears on the issue of **merit**, sometimes very heavily (so that a failure on that criterion is fatal), but often just in the sense of being one of several that are highly relevant to merit, although not—in itself—absolutely essential.\(^5\)

\(^5\) For more details, see “The Logic of Criteria”(Scriven, 1959).
How does one validate a checklist of criteria of merit? Essentially, one begins by trying for completeness, i.e., by trying to list everything that counts for merit in an X. Then one tries to construct hypothetical cases in which an entity has all the properties in the proposed comlist but still lacks something that would be required or important in order to justify an assignment of merit. Looking at the above checklist for a watch, for example, one might say, “Well, all that would get you a watch that ran well if you stayed home all the time . . . but suppose you have to fly from one (part of the) country to another. That will require you to reset the time, and there are watches where that is a virtually impossible task unless you carry an instruction book with you (e.g., the Timex Triathlon series). Surely, that flaw would lead you to withhold the assignment of high merit?” That’s a good argument, and I think it shows we need to add one more criterion of merit. So we now have the following: (Can you see other loopholes? There is at least one minor one.)


Some things are taken for granted in these lists. For example, we could add the requirements that the watch does not emit evil radiation, does not induce blood poisoning or skin eruptions, etc. We simply put those into the general background for all consumer products, not thereby belittling them—there are documented cases of radiation damage from the early days of luminous dials. But these possibilities—there are many more—would extend comlists beyond necessity. We can deal with such cases as context, and in detail only as and when they arise. We pass over other interesting issues here. For example, should luminous dials be taken as an extension of readability, as an idiosyncratic preference, or as an entry under an additional heading: 8. Versatility. Should some standards of modern design that transcend issues of function be incorporated, and if so, what standards: i.e., should there be a checkpoint 9. Design?

Evaluative Theories

We’ve already stressed the informational content of checklists. For example, the watch checklist exhibits useful knowledge about the components of watches; the contracting checklist exhibits considerable knowledge of the process whereby organizations approve contracts. Now what theory, if any, underlies the watch comlist? It’s not a theory about how watches work, but about what they need to do well in order to perform their defining function well. An evaluative theory of X is just the idea that a certain list is a comlist for X. And that may be just the kind of theory, and it may be the only kind of theory, that we need for evaluation purposes. These “evaluative theories” are not as ambitious as an explanatory theory of the total operation (including dysfunction) of the evaluand, something that is more than anyone can manage with many complex evaluands such as large educational institutions, or interventions such as addiction and delinquency and poverty reduction efforts. But it’s not so hard to say what properties an institution or intervention has to have in order to be regarded as meritorious. It’s not a trivial task, but a much easier one. One attraction about an evaluative theory is that it’s much easier to give good evidence for its acceptability than it is to demonstrate the truth of an explanatory theory. Those who favor an outcomes-based approach to program evaluation will perhaps be particularly attracted to this kind of theory, because of the emphasis on performance. However, it can and commonly should include process variables—such as comfort in wearing a watch. It might appear that evaluative theories—in a sense, the underpinnings of comlists—are not particularly versatile at generating explanations and recommendations—where program theories are supposed to excel, if you are lucky enough to have
a valid one. But they do have a trick up their sleeves under this heading: they are outstandingly
good at one valuable aspect of formative evaluation—identifying the areas of performance that
need attention or retention.

Criteria, Subcriteria, and Explanatory Text

The richness and value of a comlist is often greatly increased by unpacking some of the criteria.
Doing so is still part of comlist development and often the hardest and most useful part. In
particular, their value in formative evaluation can be greatly improved by this procedure. Here are
the main headings from the comlist for evaluating teachers advocated in another paper of mine
available on this site:

   Professionalism, 5. Nonstandard But Contractual Duties to School or Community (e.g., chapel
   supervision)

That list is not too controversial, but also is not tremendously useful. It’s still a long way from the
trenches—more at home in the general’s tent than the drill sergeant’s playbook. Let’s look at how
one might expand the second entry here, so that we’d have something that can really make
distinctions between the better and the weaker teachers and guide professional development for
both teachers and their supervisors.

2. Instructional competence:

   2.1. Communication skills (use of age-appropriate vocabulary, examples, inflection, body
       language)

   2.2. Management skills

       2.2.1. Management of (classroom) process, including discipline

       2.2.2. Management of (individual student’s educational) progress

       2.2.3. Management of emergencies (fire, tornado, earthquake, flood, stroke, violent attack)

2.3. Course construction and improvement skills

   2.3.1. Course planning

   2.3.2. Selection and creation of materials

   2.3.3. Use of special resources (local sites, media, specialists)

2.4. Evaluation of the course, teaching, materials, and curriculum

Now we can see more clearly what’s being included. And now we’re much closer to being able to
apply the checklist. However, in the publication where this appeared as a comlist that had been
revised 30+ times in the light of feedback from experience and suggestions, we added 8,000 words
of more specific detail, some for each subcriterion, in order to complete a working checklist. This
points up one feature of the use of checklists that has to be kept in mind: the balance between ease of use and value added via applicability on the one hand and length on the other. Brevity is desirable; but clarity is essential—especially, of course, when people’s careers or other highly important matters are at stake.

The second matter that also can perhaps be illuminated using this example is the criterion (for checklists) of commensurability. What this means is that headings at one level of a checklist have to be at roughly the same level of generality. The present example has four levels of headings. Looking at any one set in its location under a higher-level heading, one can see that they all are of the same level of specificity. The other side of the commensurability coin is that one must pay some attention to the function of the checklist when grouping and naming subheadings. For example, in the laundry list itself, if the function is to control the actions of the laundry person, colored articles need to be listed separately from the white ones. But if the task is simply to make a record of what went to the laundry, the color of the shirts is irrelevant. Another matter that requires close attention when building checklists into one’s methodology is intelligence, including thoughtfulness, in the application of checklists. Daniel Stufflebeam reports on a pilot whose considered judgment was that some pilots he had flown with had focused more on covering the preflight checklist in the sense of checking items off it, but not on the meaning of the checkpoints, thereby creating serious risks.

The Use of Comlists for Profiling and Scoring Purposes

Possibly the most important use of checklists in evaluation involves using them as the basis for assessing and representing the overall merit, worth, or importance of something. In rating decathletes, for example, we can simply set up a graph in which each of the ten merit-defining events is allocated a half-inch of the horizontal axis, while their best score in each event is represented by a (normalized) score in the range 1-10 on five inches of the vertical axis. Using this kind of bar graph is called profiling and is a very useful way to display achievement or merit, especially for formative evaluation purposes. However, it will not (in general) provide a ranking of several candidates; for that, we need to amalgamate the subscores into an overall index of some kind. In the decathlete case, this is easily done: we allot equal weight to each performance (since that is how the decathlon is scored) and add up the normalized performance scores. The athlete with the top score is the winner; the second highest score identifies the runner-up, etc.

But in program evaluation and most personnel evaluation, matters are not so easy. It often seems clear that different criteria of merit deserve different weights; but it’s very hard to make a case for a quantitative measure of that difference, certainly for a precise measure. Worse, the use of a single weight for each criterion of merit is an oversimplification. It is often the case that a certain level of performance on criterion N is much more important than a certain level of performance on criterion M, but that increments above that level on N are no more important than increments on M. In other words, the value or utility function is not a linear function of performance. If that is so, what kind of function is it? Evaluators can begin to feel out of their depth at this point. The following remarks may be helpful in exploring this further refinement of the comlist.

1. Do not abandon equal weighting without overwhelming evidence. In the first place, it may not be exactly right, but it may be the best approximation. In the second place, even if it’s not the best approximation, results based on this assumption may be highly correlated with results based on the
correct function/weighting; and if you can’t determine the latter and demonstrate it to the satisfaction of the client and key stakeholders, it’s this way or the highway.

2. If you are certain that N is more important, throughout its range, than M, make a simple, intuitive estimate of the difference as the basis for a trial exploration of its effect (i.e., begin a sensitivity analysis). But do this very cautiously. At first, consider whether to use the factor 1.5 rather than 2, and almost never go beyond the ratio of 2. It is extremely hard to justify a higher ratio than 2 to others because 2 has a huge effect; and at least you can argue that it’s crucial to work out exactly the consequences of a weight of 2 before exploring further.

3. If the ratio you pick seems not to apply constantly across the whole range of performance on a particular criterion, try varying it for a certain interval.

4. Testing your attempts to set differential weights requires some judgment about whether the results show it to have been a success or failure. Do this by inventing and considering a range of hypothetical cases to see whether they lead to implausible results, i.e., look into the robustness of your weights. (This is hypothesis-testing for evaluative theories.) You are likely to find out quickly that large differences in weights allow easy counterexamples to be created.

5. A procedure that combines qualitative weighting with minimalist quantitative procedures, called Qualitative Weight and Sum (QWS), is set out in the present author’s Evaluation Thesaurus (Scriven, 1991) and refined somewhat in E. Jane Davidson’s (2004) Evaluation Methodology Basics.

Conclusion

Laundry lists, sequential checklists, and comlists all serve important roles in evaluation. A basic logic, covering only some of their properties, has been set out here, in the hope it may lead to increased attention and improved utility of checklists. Suggestions for improvement and expansion, as well as good examples, would be much appreciated (send to mjscriv@gmail.com). Some will be incorporated into later posted and dated editions, with acknowledgments.

References

