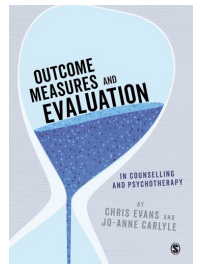


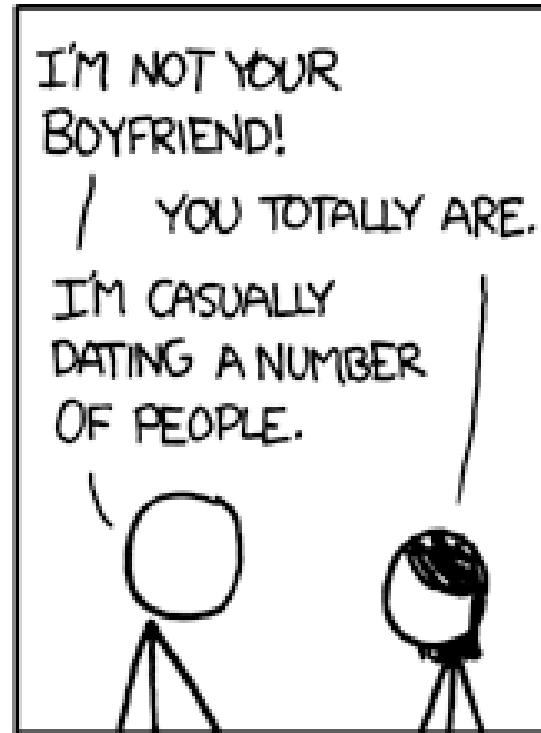
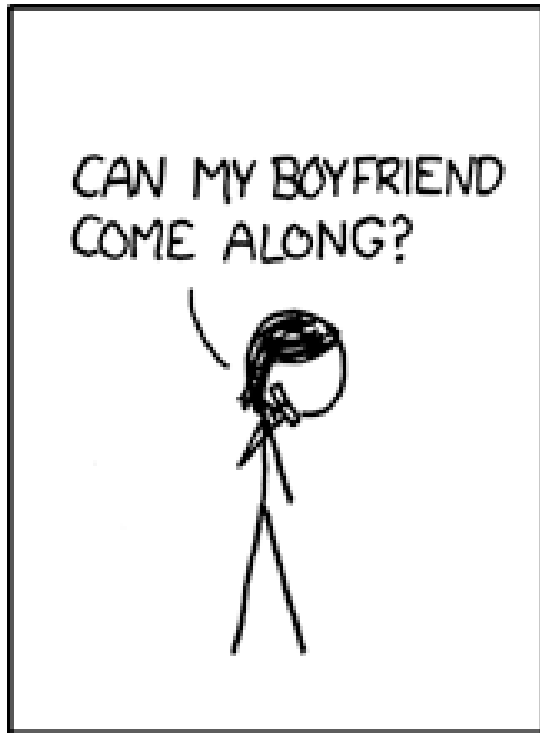
# Outcome measures and evaluation

SPR(UK) hosted launch webinar  
9/2/21 18.30-19.30 UTC

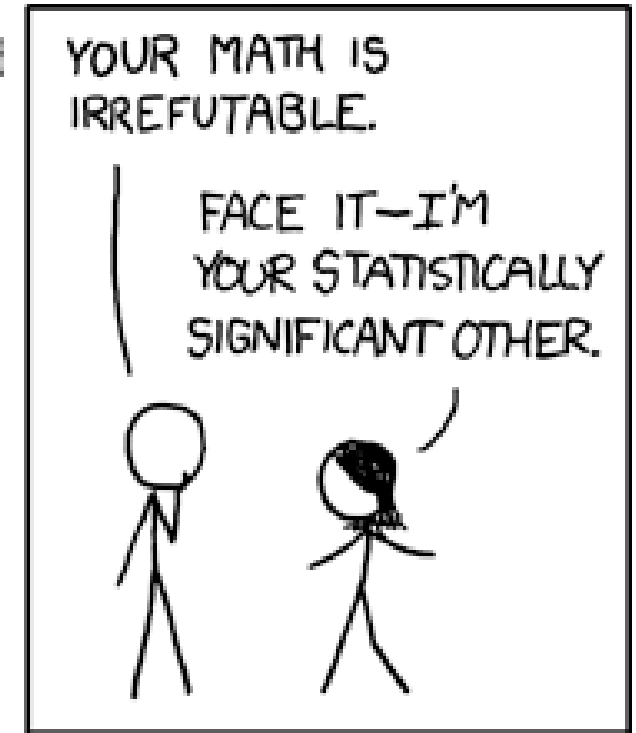
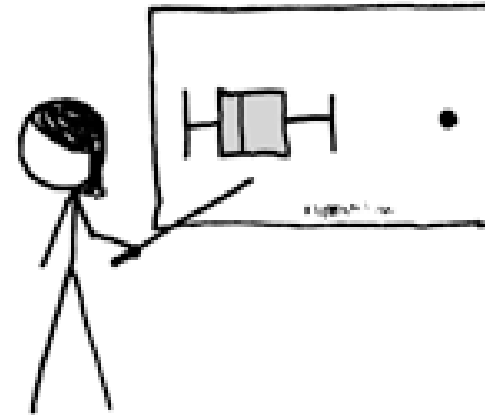
Presenters: Chris Evans & Jo-anne Carlyle  
Hosts: Charlie Duncan & Afra Turner

© Licensed for non-commercial reuse in whole or part provided attribution give to <https://www.psycht.org/psycht/book/#launch-event>,  
Creative Commons Attribution-ShareAlike 4.0 International licence, <https://creativecommons.org/licenses/by-sa/4.0/>





BUT YOU SPEND TWICE AS MUCH  
TIME WITH ME AS WITH ANYONE  
ELSE. I'M A CLEAR OUTLIER.



# Contents of the book

- **All this is at <https://ombook.psychtc.org/book/#book-contents>**
- Intro
- Part I: Outcome measures and evaluation
  - Chapter 1. An introduction to outcome measures and evaluation
- Part II: Outcome measures
  - Chapter 2. A framework for outcome measurements
  - Chapter 3. How to judge the quality of an outcome measure
  - Chapter 4. An overview of outcome and change measures
  - Chapter 5. Analysing change data from outcome measures
- Part III. Evaluation – applying outcome measures in practice
  - Chapter 6. Planning an outcomes exploration: design and be SMART
  - Chapter 7. Outcome measurement for individual practitioners
  - Chapter 8. Service-level change and outcome measurement
  - Chapter 9. Working with clients and supervisors when using outcome measures
- Part IV. Communication and critique
  - Chapter 10. A ‘snapshot’ review: Constructive critique as a core practitioner skill



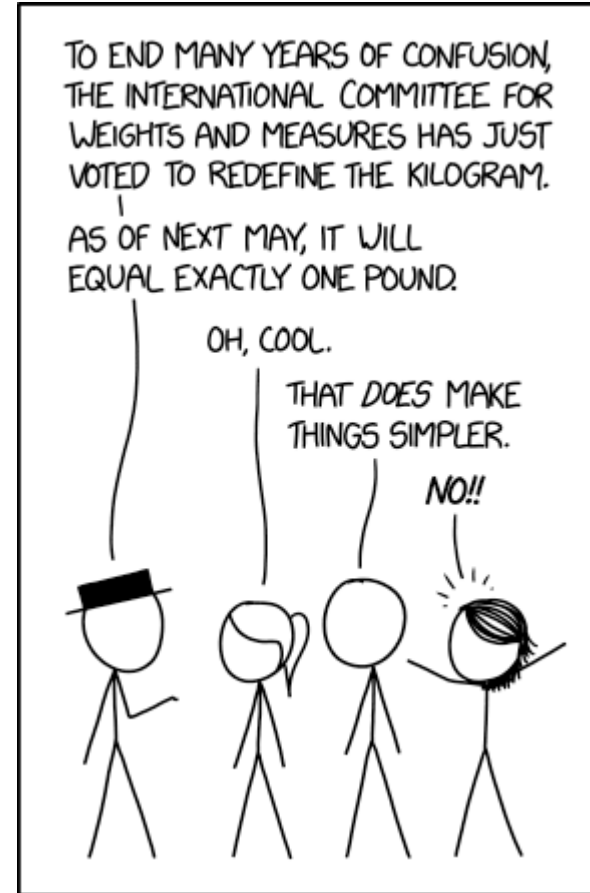
# Part I. Outcome measures and evaluation

## Chapter 1. An introduction to outcome measures and evaluation

- Why bother? No one on their death bed ...
- Political reasons
- Knowledge-led reasons (and a bit of epistemology)
- Therapeutic reasons
- Is it doable? What are the barriers?
- So where do I start?



# Part II. Chapter 2. A framework for outcome measurements



<https://xkcd.com/2073/>

A theme through the book is that our OMs are not simple, they are not like hard science measures

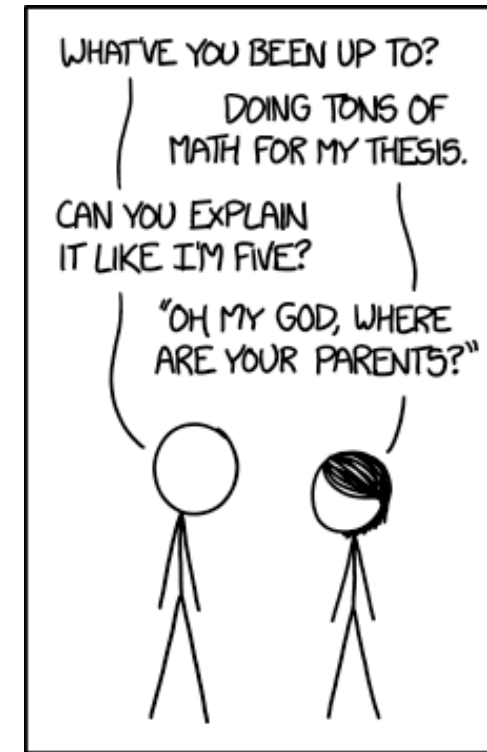


# Part II. Chapter 2 continued

- Develops general ideas from Part I.
- Recognises that there are many OMs all with advantages and disadvantages: self-report, multi-item, nomothetic questionnaires are *not* the only option.



# Part II. Chapter 3. How to judge the quality of an outcome measure

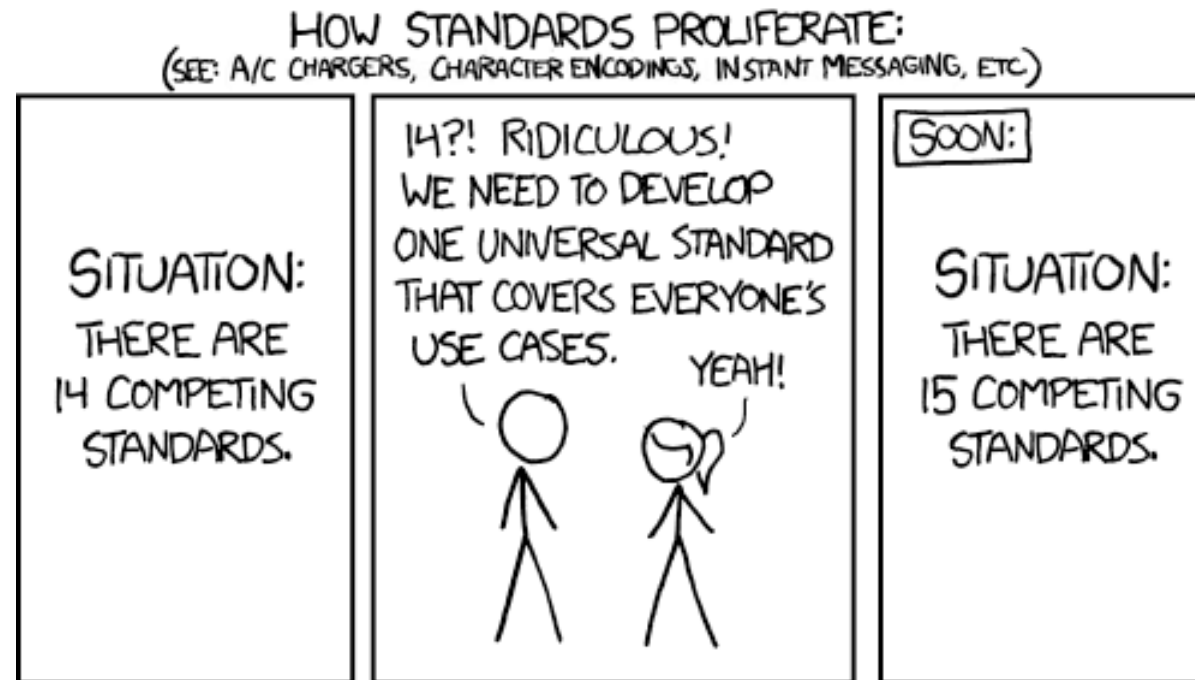


<https://xkcd.com/1364/>

- An OM is not fixed like the definition of a kilogram and judging the qualities of OMs is *not* just psychometrics
- We introduce GULP: Generalisability, Usability, Linguistics/culture and Psychometrics:
- We do explain basic quantitative psychometrics, reliability and validity
- "Shall I just invent my own measure? Stop! Don't do it!"



# Part II. Chapter 4. An overview of outcome and change measures



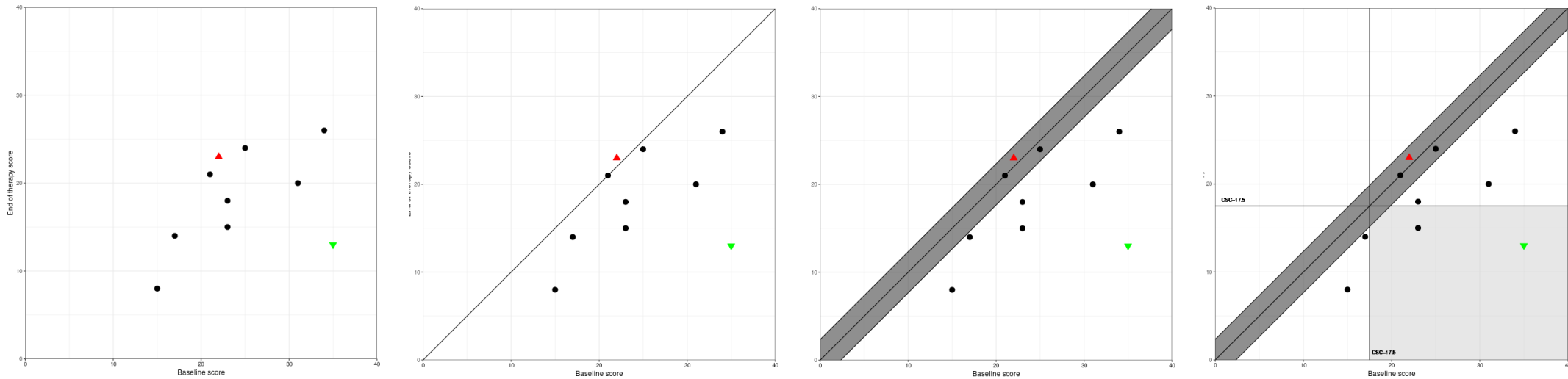
<https://xkcd.com/927/>

- Back to the framework of OMs from chapter 2 but with examples





# Part II. Chapter 5. Analysing change data from outcome measures

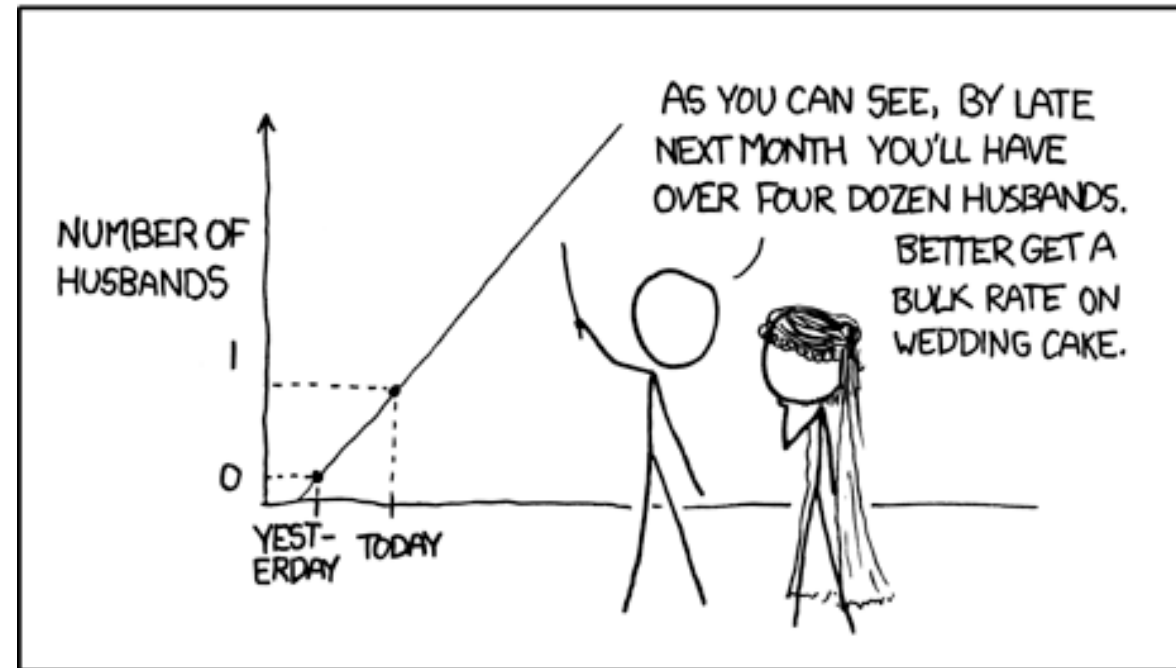


- Introduction to procedures to analyse change: tables, graphs and statistical summaries
- Explanation of statistical significance tests and confidence intervals



# Part III. Chapter 6. Planning an outcomes exploration: design and be SMART

MY HOBBY: EXTRAPOLATING



<https://xkcd.com/605/>

- That's not how to do it!



# Part III. Chapter 6 continued

- What do you want to tell and *to whom*: the vital issue of audience
- Fit your design to your audience (and aim)
- Good design and SMART design
  - “*n*”: data set size
  - Quantitative, qualitative and mixed data and methods
  - Confidentiality and ethics
- When *not* to measure
- Making the best of imposed OMs



# Part III. Chapter 7. Outcome measurement for individual practitioners

- Simulated examples for short term and longer term practitioners
- Comparing with other practitioners and with trial reports
- “Little data” *versus* “Big data”



# Part III. Chapter 8. Service-level change and outcome measurement

- Simulated stepped care service: how to choose what to examine
- Looking at:
  - Opting out
  - Effects of social deprivation and of therapist experience on change
- Equipoise and how to avoid misinterpreting data



# Part III. Chapter 9. Working with clients and supervisors when using outcome measures

- Using feedback, even OM feedback, in therapies is not new!
- Model/modality specificity
- Need for clarity and planning: What OM? Where? When?
- Using OMs is relational:
  - Talking about OMs and OM scores with clients
  - Embedding in ...
    - Line management
    - Therapy supervision
- Beware measures **versus** therapy (with examples in the book!)



# Part IV. Communication and critique

## Chapter 10. ...Constructive critique as a core practitioner skill



<https://xkcd.com/1462/>

- That's not how to do it!



# Part IV. Chapter 10 continued

- Section 1: Dominant myths
  1. 'we know what works for whom and just need to hone this'
  2. 'only randomised controlled trial evidence ascribes causality: that is all we need'
  3. 'there are lies, damned lies and statistics'... and ...

'I can prove anything by statistics except the truth'
- Accepting incompleteness
  1. Viewpoints: perspective and position
  2. Omissions and incomplete data
  3. Descriptive quality
- Equipoise in clinical and research setting





# Supporting materials and resources: book pages

<https://www.psyctc.org/psyctc/book/>

Work mostly by CE other than CORE (for which, see : [www.coresystemtrust.org.uk](http://www.coresystemtrust.org.uk))

---

[Home](#)

**Outcome measures book**

[OM book glossary \(general use, not just for book\)](#)

[Search the site](#)

[Register to get updates from PSYCTC.org](#)

[Tools: questionnaires and measures](#)

[Statistics and statistical utilities](#)

["Rigorous idiography"](#)

[Repertory grids etc.](#)

[Associates and researchers](#)

[About me!](#)

[Blog](#)

[Contact me](#)

[User](#) ▾

[Login](#)

---

---

**RECENT POSTS**

[Why kappa? or How simple agreement rates are deceptive](#)

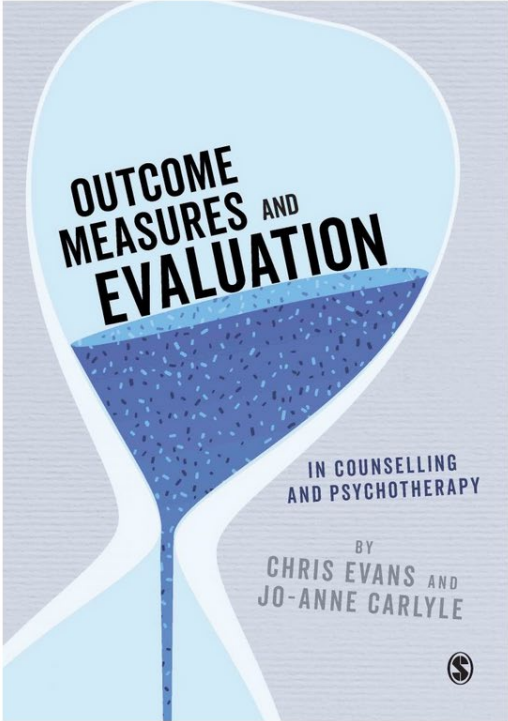
[Against score levels?](#)

[Blended & layered research: Avdi & Evans 2020](#)

[NICE consultation 2021](#)

---

## Outcome Measures and Evaluation in Counselling and Psychotherapy



Paperback ISBN: 9781473906730  
Hardcover ISBN: 9781473906723

[SAGE page](#)

**Available from**

- [VitalSource](#)
- [GooglePlay](#)
- [eBooks.com](#)



# Supporting materials and resources: glossary

<https://www.psycht.org/psycht/book/glossary/>

[Home](#)  
[Outcome measures book](#)  
**[OM book glossary \(general use, not just for book\)](#)**  
[Search the site](#)  
[Register to get updates from PSYCTC.org](#)  
[Tools: questionnaires and measures](#)  
[Statistics and statistical utilities](#)  
[“Rigorous idiography”](#)  
[Repertory grids etc.](#)  
[Associates and researchers](#)  
[About me!](#)  
[Blog](#)  
[Contact me](#)  
[User](#) ▾  
[Login](#)

**RECENT POSTS**  
[Why kappa? or How simple agreement rates are deceptive](#)  
[Against score levels?](#)  
[Blended & layered research: Avdi & Evans 2020](#)

## OM book glossary

This is the glossary for the book “Outcome measures and evaluation in counselling and psychotherapy” written by myself and Jo-anne Carlyle and available now from SAGE.

Just type in whatever you want to look up below and you should see pertinent entries if I have created them yet (150 now and climbing!)

The full list of entries follows, if what you want is not there and you think it should be, contact me and tell me and I will put it on the list of entries to be added!

---

### All OM book glossary entries

- [“Big data”](#)
- [“Hard” measures](#)
- [“Normal” distribution](#)
- [“Soft” measures](#)
- [Age](#)
- [Aggregation](#)
- [Audit, Clinical Audit](#)
- [Authenticity Scale \(AS\)](#)
- [Barplot / bar plot](#)
- [Beck Anxiety Inventory \(BAI\)](#)
- [Beck Depression Inventory \(BDI\)](#)
- [Between groups tests](#)
- [Bias](#)
- [Blinding](#)
- [Body Shape Questionnaire \(BSQ\)](#)



# Supporting materials and resources: Rblog

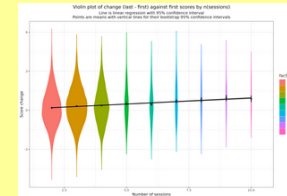


An R SAFAQ: go to USE (menu above) to get advice on using this!

Feb. 5, 2022  
Chris Evans

## Pre/post analyses

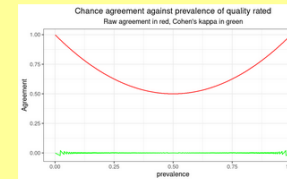
Teaching myself about pre/post therapy change analyses using R.  
Probably the first of a series of posts.



Jan. 24, 2022  
Chris Evans

## Chance corrected agreement

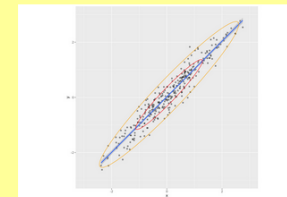
Simple plotting of raw agreement and Cohen's kappa for various prevalences of the rated quality and only chance agreement



Jan. 15, 2022  
Chris Evans

## Data ellipses and confidence ellipses

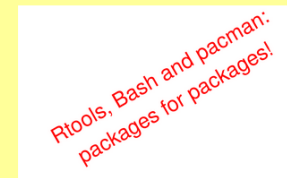
This just clarifies the distinction between a data ellipse and a confidence ellipse, i.e. an ellipse describing the joint confidence intervals on two parameters of a model



Nov. 12, 2021  
Chris Evans

## Compiling packages reporting missing headers in windows

For anyone else who hits this and doesn't want to wait for someone to put the compiled package into CRAN



# Supporting materials and resources: CECPfun

https://cecpfun.psych.org

CECPfun0.0.0.9041ReferenceArticles ▾Changelog

## CECPfun

The goal driving the creation of CECPfun is largely selfish: to make sure I have a single, up to date, repository where I can find potentially reusable functions I have written. However, it is something that has been very much encouraged by (Dr. Clara Paz)[[https://investigacion.udia.edu.ec/udia\\_teams/clara-paz/](https://investigacion.udia.edu.ec/udia_teams/clara-paz/)] and she has contributed to some of these functions and to the general idea of the package. Input has also come from (Emily Blackshaw)[[https://www.researchgate.net/profile/Emily\\_Blackshaw2/](https://www.researchgate.net/profile/Emily_Blackshaw2/)]. It is possible that these functions may be of use to others so I am now uploading it to GitHub at <https://github.com/cpsych/CECPfun> after any significant changes.

There is also now a pkgdown produced web site for the package at <https://cecpfun.psych.org/>.

## Installation

You can install the latest version of CECPfun from <https://github.com/cpsych/CECPfun>.

```
devtools::install_github("cpshyct/CECPfun", build_vignettes = TRUE)
## or
remotes::install_github("cpshyct/CECPfun", build_vignettes = TRUE)
```

If you really want to make sure you always have the latest version, you can look for it every time you launch R, see [here](#).

## Background information

- As above, you can find out more about Clara at [https://investigacion.udia.edu.ec/udia\\_teams/clara-paz/](https://investigacion.udia.edu.ec/udia_teams/clara-paz/),
- you can find out more about Emily at [https://www.researchgate.net/profile/Emily\\_Blackshaw2/](https://www.researchgate.net/profile/Emily_Blackshaw2/) and about her PhD which I am supervising on ResearchGate, [here](#) and
- my own biggest research programme, which overlaps with Emily's work, is the CORE system: <https://www.corestemtrust.org.uk/> and a web site about my non-CORE work is slowly building (from a much earlier one) at <https://www.psych.org/psych/> and my personal site is <https://www.psych.org/pelerinage2016>.

## Licence and disclaimer

The package is licensed under the MIT licence <https://opensource.org/licenses/MIT> which means you should be able to reuse anything here that you find useful with no fee to me as long as you comply with the terms of that licence. The licence has a very capitalised disclaimer:

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

### License

[Full license](#)

[MIT + file LICENSE](#)

### Community


[Contributing guide](#)

[Code of conduct](#)

### Citation





[Citing CECPfun](#)

### Developers

Chris Evans  
Author, maintainer, copyright holder 

[All authors...](#)

### Dev status

Developed by Chris Evans.

Site built with [pkgdown](#) 1.6.1.9000.



# Emerging supportive resources: shiny apps

← → ↻ https://shiny.psych.org/apps/Cronbach1Feldt/ ⓘ ☆ 🔒 ⬇️ 📄 Z ☰

## Parametric confidence interval for Cronbach alpha

This shiny app is part of a number from my site at [PSYCTC.org](https://shiny.psych.org). There is a form there to [contact me](#) so do please use that if you think there is anything wrong here, or anything that could be improved.

Put your values in here, replacing the existing ones

**Sample size (n), positive integer**

**Number of items (k), positive integer**

**Observed/reported Cronbach alpha value ( $\leq 1.0$ )**

**A referential alpha (if you need this)**

**Width of CI (usually .95, i.e. 95% CI,  $\leq .99$ )**

**Number of decimal places**

### Your input and results

Given:

```
Observed alpha = 0.94
n = 110
Number of items = 34
Gives two-tailed p = 0
against alternative alpha of 0
95% confidence interval from 0.92 to 0.96
```

App created by Chris Evans [PSYCTC.org](https://shiny.psych.org) licenced under a [Creative Commons, Attribution Licence-ShareAlike](#) Please respect that and put an acknowledgement and link back to here if re-using anything from here.



# The breakout groups

- We need new models!!
- New to OM
- Seasoned researchers and OM users
- Interested in OM but not from therapies/counselling



# Questions for your groups

- What changes in OM would help therapy modalities and groups not well served by current methods?
- Anything you really agree or disagree with in what you've seen, heard or read of the book?!



What would help you more from this?

