The Three Circles App

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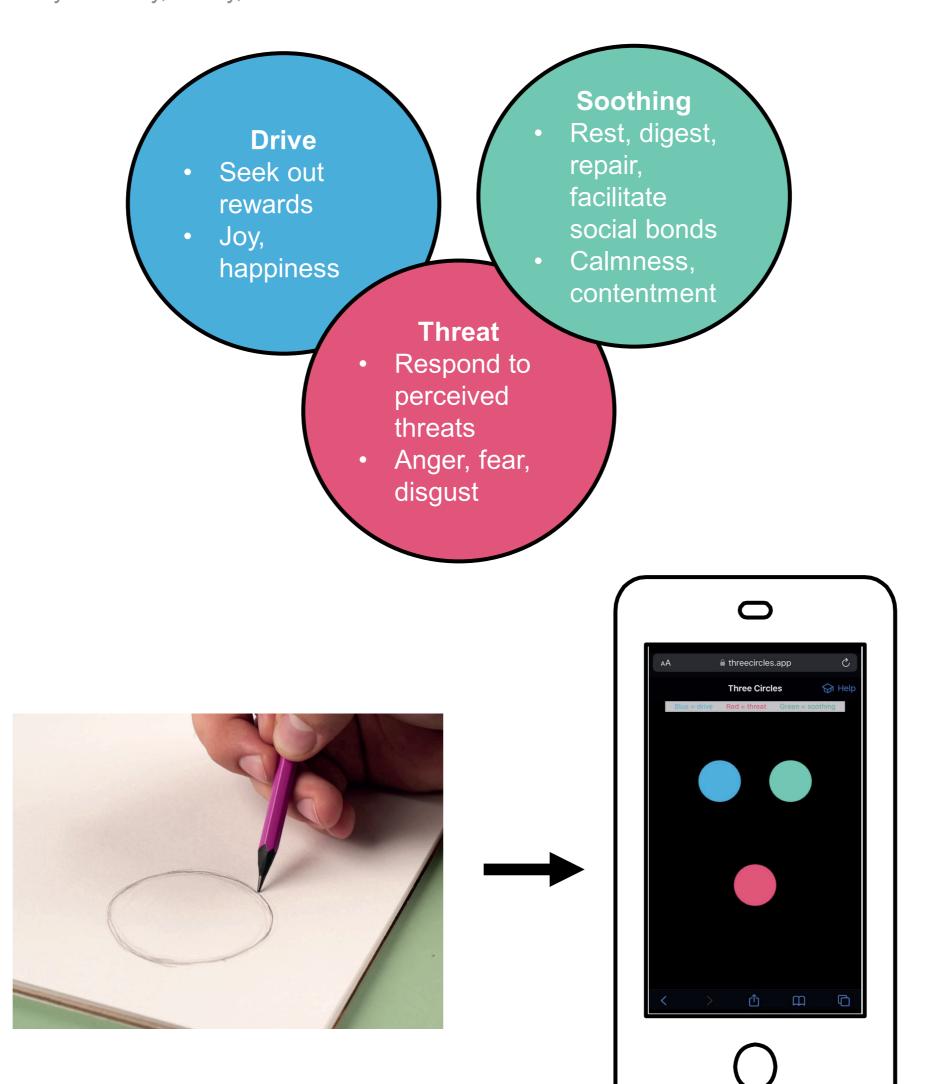
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Rationale

- Tripartite model of emotion is proposed by compassion focused therapy (CFT) (Gilbert, 2009)
- · Emotions are resultant from activity of three systems which motivate you to adapt to your environment
- Physiological evidence for model has been established (Depue & Morrone-Strupinsky, 2005; Sousa et al., 2021; 2022)
- CFT theory states that imbalance can result in emotion dysregulation
- A common exercise employed in CFT is drawing three circles to gauge the recent activity of the three systems
- We aimed to demonstrate construct validity of the new digital measure of emotion and motivation by examining cross-correlations with conventional psychometrics

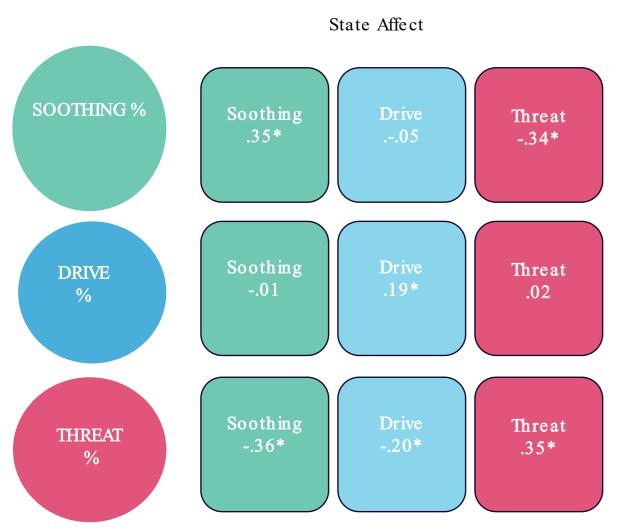
Scan the code to try the **Three Circles!**





Results

Correlations between state Three Circle ratings and ratings of emotion via conventional psychometrics





Outcome measure

THREAT

.34*

Depression

THREAT DRIVE SOOTHING % Anxiety **IMBALANCE** -.34* -.09 .39* -.03 Stress **DRIVE THREAT SOOTHING % IMBALANCE** % -.39* -.08 .05 .37*

Correlations between psychological distress/emotion regulation and Three Circles -

retrospective ratings

DRIVE

-.15*

Circle Dominance Correlations

SOOTHING %

-.21*

IMBALANCE

-.12

IMBALANCE

-.12

Difficulties **DRIVE** THREAT with **SOOTHING %** % emotion -.22* -.06 .29* regulation

Correlations between retrospective Three Circle ratings and retrospective ratings of emotion via conventional psychometrics

Retrospective Affect

SOOTHING % Soothing Drive Threat .21* .19* -.28* Soothing Drive Threat DRIVE .04 -.24* Soothing Drive Threat **THREAT** -.21* .42*

THREE CIRCLES ADOLESCENT STUDY

- We are currently in the process of validating the Three Circles for use with adolescents
- Ethical approval granted; study has begun with over thirty 12 17 year old participants so far
- Survey link ready to be disseminated; psychoeducational resources and seminars are offered as incentive to participate
- Volunteer schools from Independent Schools Australia are welcomed
- Please email Associate Professor Dr. James Kirby at j.Kirby@psy.uq.edu.au to enquire, or alternatively, scan the QR code to the right, provide your details, and we can contact you

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Methods

- Aim was to validate the Three Circles with established measures of emotion in 311 young adults aged 18-25 Participants completed an online questionnaire consisting of demographic questions and conventional ratings of emotion, then rated how their Three Circles had been over the day, and the past week,
- Hypothesised that individual circles would correlate with reported emotions in ways that reflect the underlying emotion motivation systems both 'right now" and "over the past week
- Theorised that soothing and threat circles should counterbalance each other per CFT theory; drive should only map to itself
- Coregulation between the circles is theorised to be reflected in measures of psychological distress and difficulties in emotion regulation
 - High threat system dominance = high scores on clinical measures
 - Imbalance between the circles should predict higher scores on clinical measures

Discussion

- The Three Circles appear to map to emotions consistently with predictions, aside from threat circle dominance also being negatively associated with ratings of drive-based emotions, not just soothing ones
 - (le. If you have a large red circle, you won't say you're feeling joyous OR calm)
- Over longer periods of time, participants appear to conceptualise the week as either "good" or "bad", and differentiate less between types of good
- Imbalance as a variable appears not to be predictive of psychological distress or difficulties in emotion regulation; high threat dominance and low soothing dominance appears to be responsible for this
 - Drive circle dominance was also found to be inversely predictive of depression
- The lack of predictive value of the imbalance variable may be explained by the adaptive nature of the three systems; they are meant to continually compensate for environmental stimuli, and so circle configurations may be more or less suitable depending on context

Register your interest in participating using the code below!



