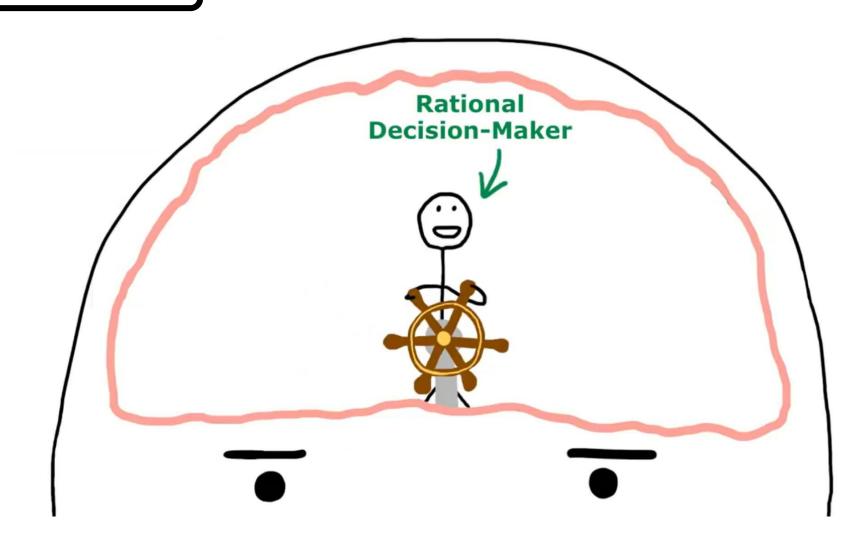
BeatDelay

Cognition-Behavior Training Programme for Procrastination

Behavior Modification

Xin Hao haox8023@163.com

Procrastination

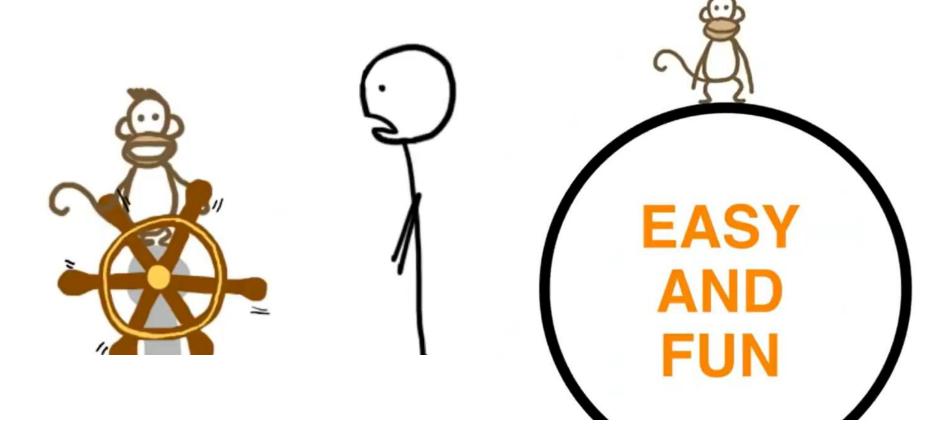


Tim Urban, 2016, TED Talk

Procrastination Rational Decision-Maker Instant Gratification Monkey

Tim Urban, 2016, TED Talk

Procrastination



Tim Urban, 2016, TED Talk

Procrastination

Procrastination:

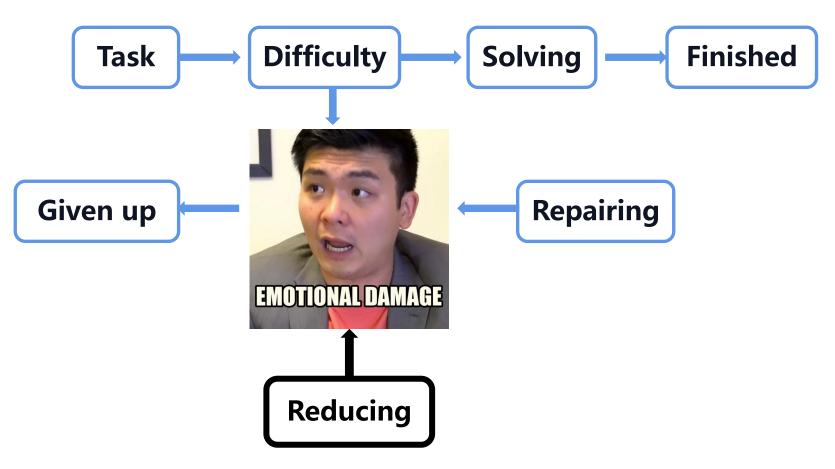
★ People voluntarily delay starting or completing a planned task despite foreseeing adverse consequences.

Steel, 2007, Psychological Bulletin



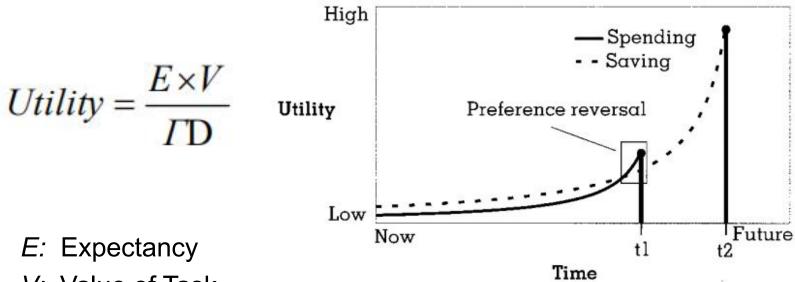


Short-term Mood Repair Theory, SMRT



Sirois & Pychyl, 2013, Social and Personality Psy Compass

Temporal Motivation Theory, TMT



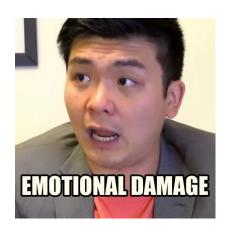
V: Value of Task

Γ: Subject's sensitivity to delay

D: T - t, The reward in terms of time reward minus time now

Steel & König, 2006, Academy of Management Rev

Short-term Mood Repair Theory, SMRT



It's difficult to get down to or persist in doing.....

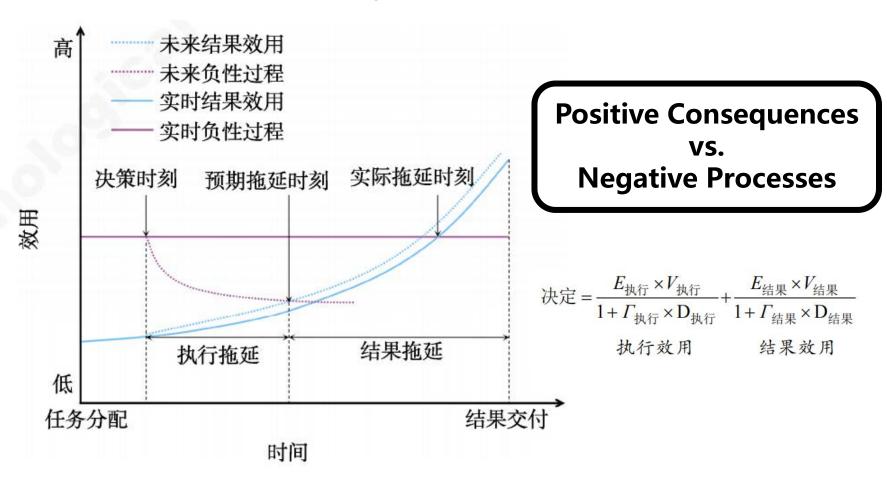
Temporal Motivation Theory, TMT

$$Utility = \frac{E \times V}{\Gamma D}$$

 $Utility = \frac{E \times V}{ITD}$ It's desperate to get it done... (Carry-over or Tail-raising)

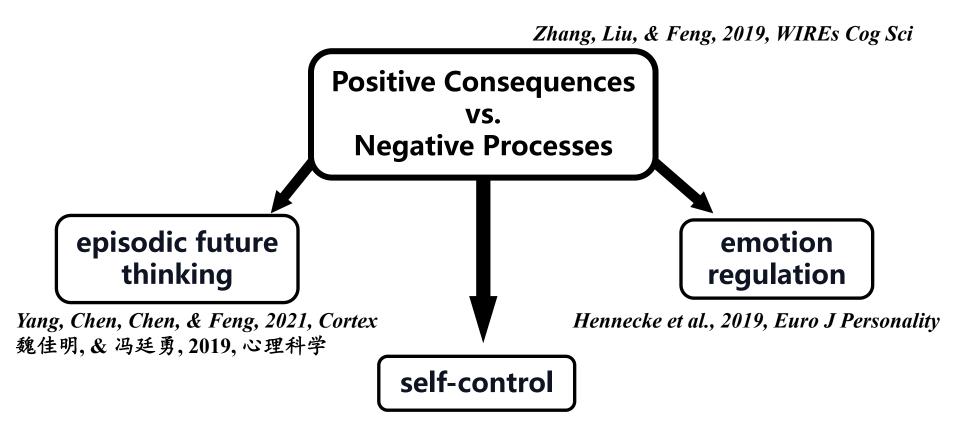
冯廷勇 & 张碧滢, 2023, 心理科学进展

Time Decision Model of procrastination, TDM



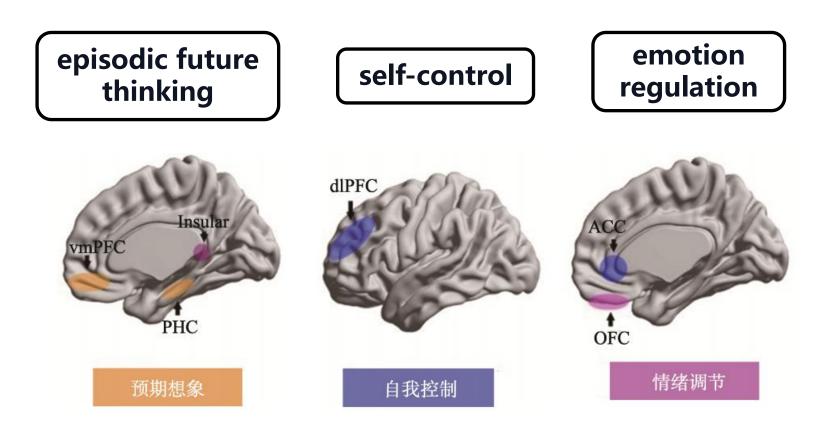
冯廷勇 & 张碧滢, 2023, 心理科学进展

Assessment — Decision — Execution



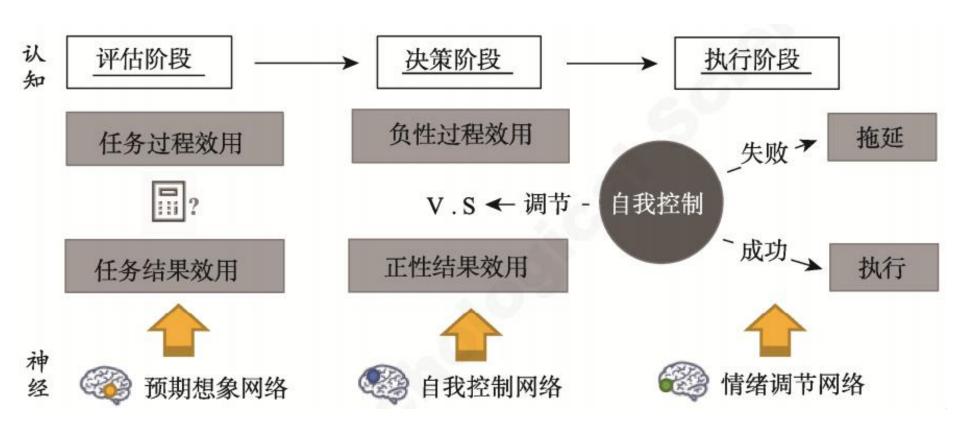
Berkman et al., 2017, Cur Dir in Psy Sci Zhang, & Feng, 2020, JEP: G

Triple Neural Structure Network of Procrastination



Chen, et al., 2020, Cerebral Cortex 冯廷勇 & 张碧滢, 2023, 心理科学进展

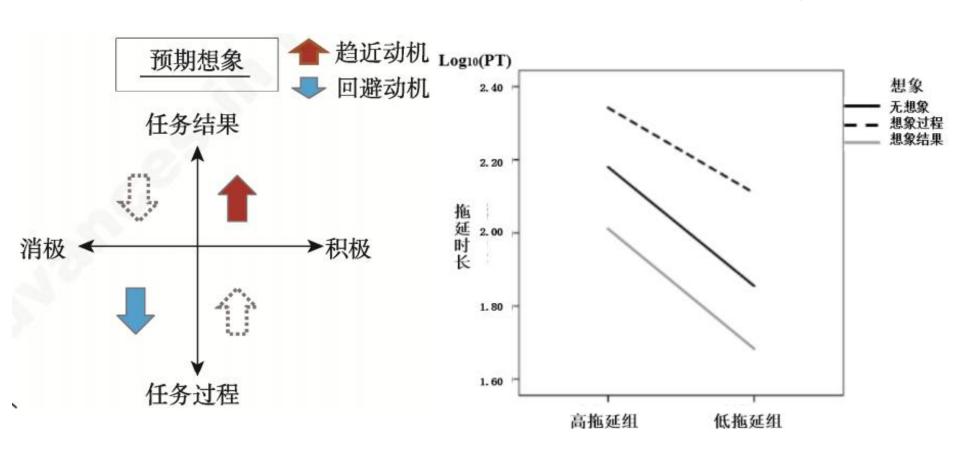
Neuro-Cognitive Models of Procrastination



冯廷勇 & 张碧滢, 2023, 心理科学进展

Intervention

Intervention Based on Episodic Future Thinking

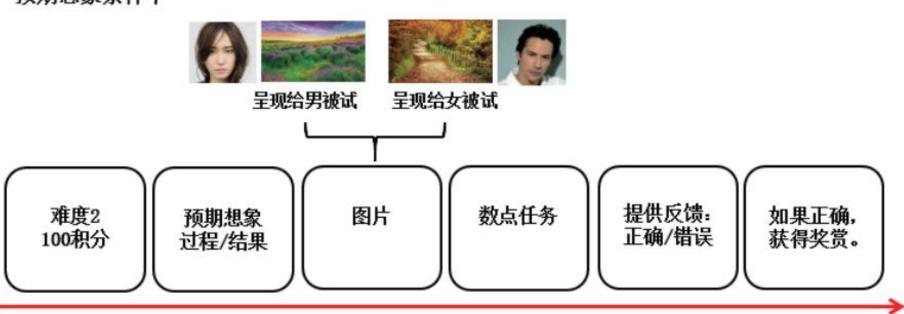


冯廷勇 & 张碧滢, 2023, 心理科学进展魏佳明, & 冯廷勇, 2019, 心理科学

Intervention

Intervention Based on Episodic Future Thinking

预期想象条件下



魏佳明, & 冯廷勇, 2019, 心理科学

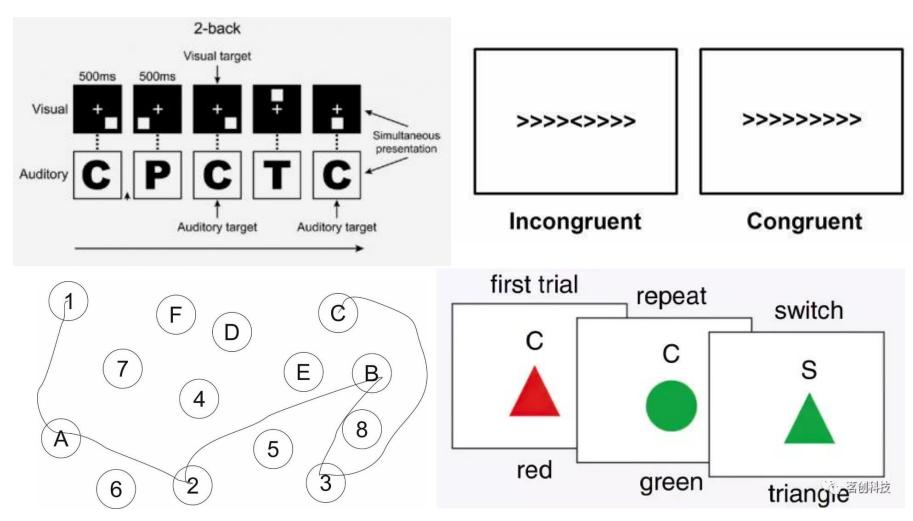
Intervention

Intervention Based on Emotion Regulation



Paradigm ——— Product

Measurement — Training



Procedure







Cogmed is an evidence-based training program for improving attention



https://www.cogmed.com/





JavaScript、Python

Jspsych (GUI) Labjs (GUI)

OpenSesame (GUI) PsyToolkit(GUI) Psychopy (GUI) E-prime Go (GUI) Inquisit (GUI)

Gorilla, 脑岛, PsyToolkit, Cognition, MindProbe, Pavlovia, Minds.testable,



OpenLab,

Jatos (server resources (e.g., firebase, leancloud, NAT))

https://github.com/ccc-lab/ccc-firebase

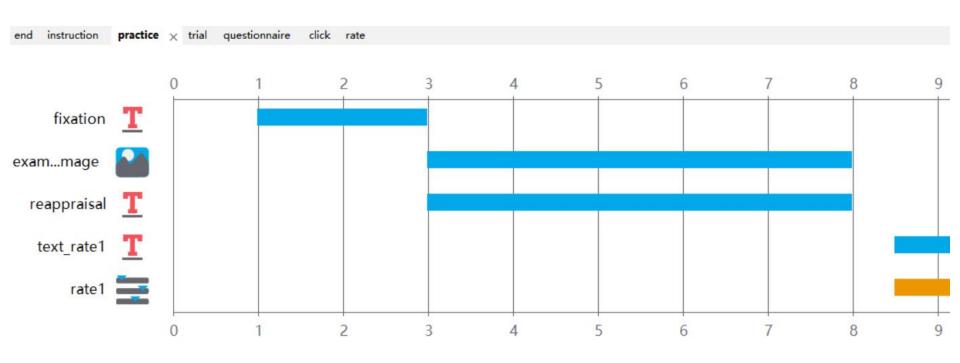
COSN - OpenTutorials / 荷兰心理统计联盟, 覃恺洋, 230506

CLI: Matlab PsychoToolBox (C++)

```
Currentpic=randi([1,picnum],1,1);
subinfo=['sub ',' ',SubNum{2}];
wptr=Screen('OpenWindow',0,255,[0 0 800 600]);
Screen('TextSize',wptr,30);
[ScreenXpixels, ScreenYpixels] = Screen('WindowSize', wptr);
for currentrun=1:repeat
   runlist=randperm(size(levels,1));
   for currenttrail=1:size(levels,1)
      DrawFormattedText(wptr,double(['�������',num2str(runlist(currenttrail))]),'center',ScreenYpixels*0.45);
      Screen('flip',wptr);
      pause(4);
      PicStartTime=tic;
      while true
          if Currentpic>picnum
             Currentpic=Currentpic-picnum;
          end
          img=imread([picdir,num2str(Currentpic),'.jpg']);
          [H W c]=size(img);
          [KeyIsDown, Sec, KeyCode]=KbCheck;
          if KeyCode(Space)
             break;
```

open with VScode, from 张顺民, 冯廷勇

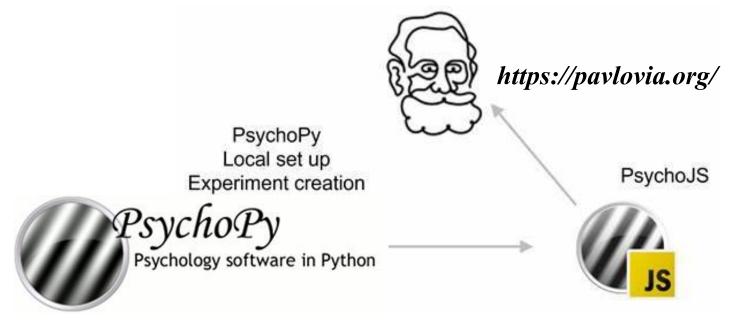
GUI: PsychoPy Builder



https://psychopy.org/index.html

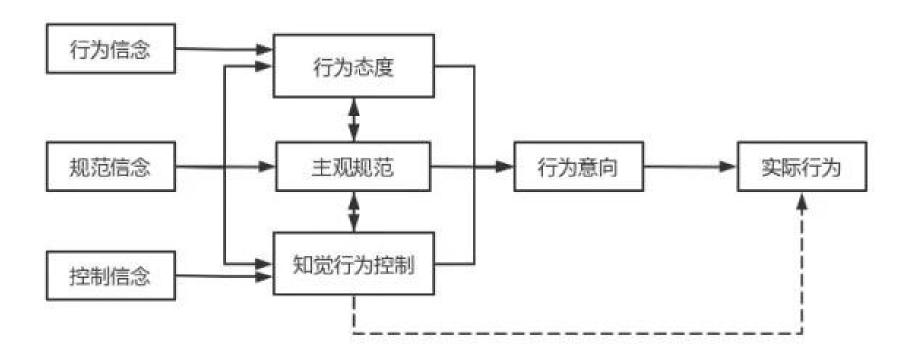


https://www.naodao.com/



陈国球, 高晓雪, 鄢忻媛, 杜梦, 臧寅垠, 汪寅. (2023). 在线心理学何以本土化? 基于历史、理念与综合性的分析. ChinaXiv. http://dx.doi.org/10.12074/202206.00150V2

Theory of Planned Behavior, TPB



★ How is individual behavior generated.

Ajzen, 1991, Organ Behav & Human Deci Proce



Behavioral Intention

I wanna do it.....

★ Meta-Analysis: The effect size of behavioral intention on actual behavior is moderate and slightly lower.

Webb, & Sheeran, 2006, Psychological Bulletin

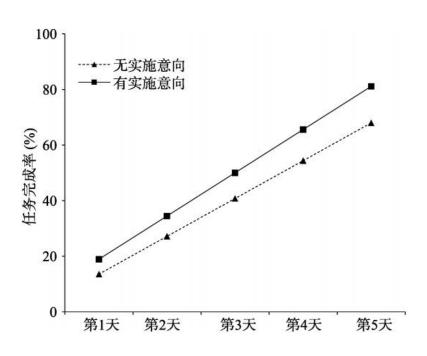
★ Most procrastinators have strong behavioral intentions.

Ariely, & Wertenbroch, 2002, Psy Sci

★ Not taking action at the right time and under the right conditions, or not persisting in the course of action.

Gollwitzer, & Sheeran, 2006, Adv Exper Social Psy

Implementation Intention



When sth. comes up, I'll do.....

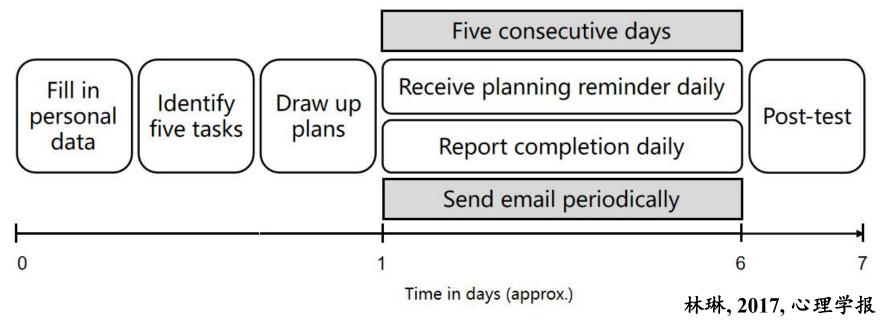
林琳, 2017, 心理学报

★ Forming implementation intention is an effective means of self-control

Gollwitzer, & Sheeran, 2006, Adv Exper Social Psy

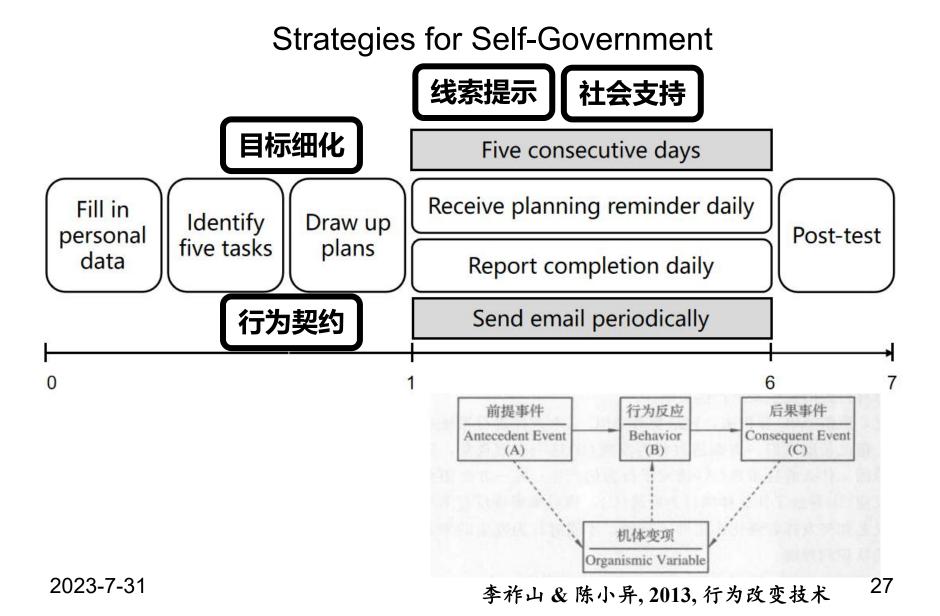
Modification

Modification Program Based on Inplementation Intention

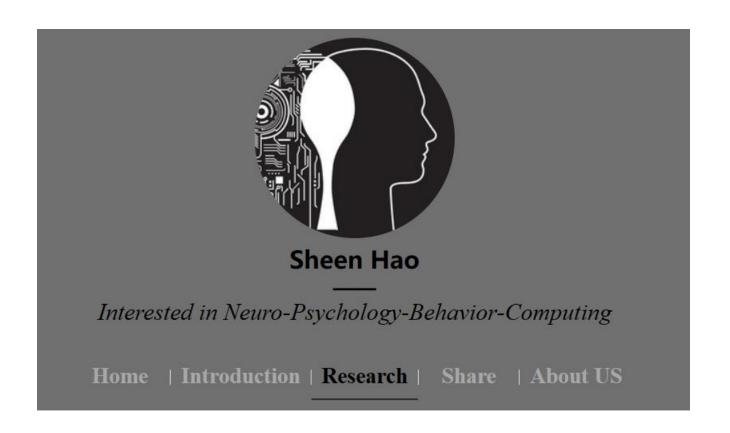


- ★ Draw up plans: Estimated start time, completion time, time spent, completion method, likely difficulties encountered and solutions
- ★ Reminder: 10:00 am, "Please recall your specific plan and proceed with it, making adjustments as needed."

Modification



https://haox8023.jzfkw.net/col.jsp?id=104



项目说明

本项目通过情绪调节策略——认知重评(积极重评)的训练,希望帮助训练者改善拖延的习惯,面对工作生活中的事件时,能够及时进行情绪调节,恢复状态。

关闭



https://github.com/SheenHao8023



Implication

更多地欣赏自己——曾经有什么写文章成功的经历?当时有怎样的感受?别人对我说了什么,做了什么?

如果难以抵抗诱惑,就只关注下一步——在不能开始写文章的时候这样想:假如我要开始写文章,(虽然并不想写),我会先做什么?我会先打开word。下一步呢?我会取个标题。很多时候,只要开始做,慢慢就能进入正轨。

from 京师心理大学堂(BNU), 2023-05-06

从最容易的小事开始, 之后就会好很多

拖延如此难以克服的根本原因,就是当**每逃离一项任务、选择另一个可以带来愉悦的选项时,拖延者都在被给予一个迅速的即时奖励**;而每当获得这样的奖励,我们就有更大的可能再做。

from 果壳(guokr), 2023-02-01

2023-7-31 31

Thanks

Tingyong Feng, Ph.D, Professor Faculty of Psychology, Southwest University; E-mail: fengty0@swu.edu.cn

Shunmin Zhang, Ph.D, Special researcher, Ph.D supervisor Department of Psychology and Behavioral Sciences, Zhejiang University; E-mail: shunmin@zju.edu.cn

BeatDelay

Cognition-Behavior Training Programme for Procrastination

Behavior Modification

Xin Hao haox8023@163.com