

天国在我心里

曾勇

- 9/1982 – 7/1986, B.Eng, Institute of Logistical Engineering
解放军后勤工程学院建筑工程系
- 9/1986 – 9/1989, M.Sc, Dalian University of Technology
大连理工大学计算力学
- 9/1992 – 10/1996, Lecturer, Associate Professor, Institute of Logistical Engineering
解放军后勤工程学院建筑工程系, 讲师, 副教授
- 5/1998 – 5/2001, Ph.D., The University of Calgary
卡尔加里大学机械和制造工程系, 博士
- 6/2001 – 1/2002, PDF, The University of Calgary
卡尔加里大学人类行为实验室, 博士后
- 2/2002 – 7/2003, Research Associate, NRC-IMTI, Canada
加拿大国家研究院集成制造所, 研究助理
- 8/2003 – 4/2010, Associate Professor
2010 – now, Professor, Concordia University
Canada Research Chair in Design Science (4/2004~7/2014)
NSERC Chair in Aerospace Design Engineering (7/2015~6/2020)
康大信息工程所, 副教授, 教授

RQ1: how do human beings create?

➡ **A Formal Science of Design**

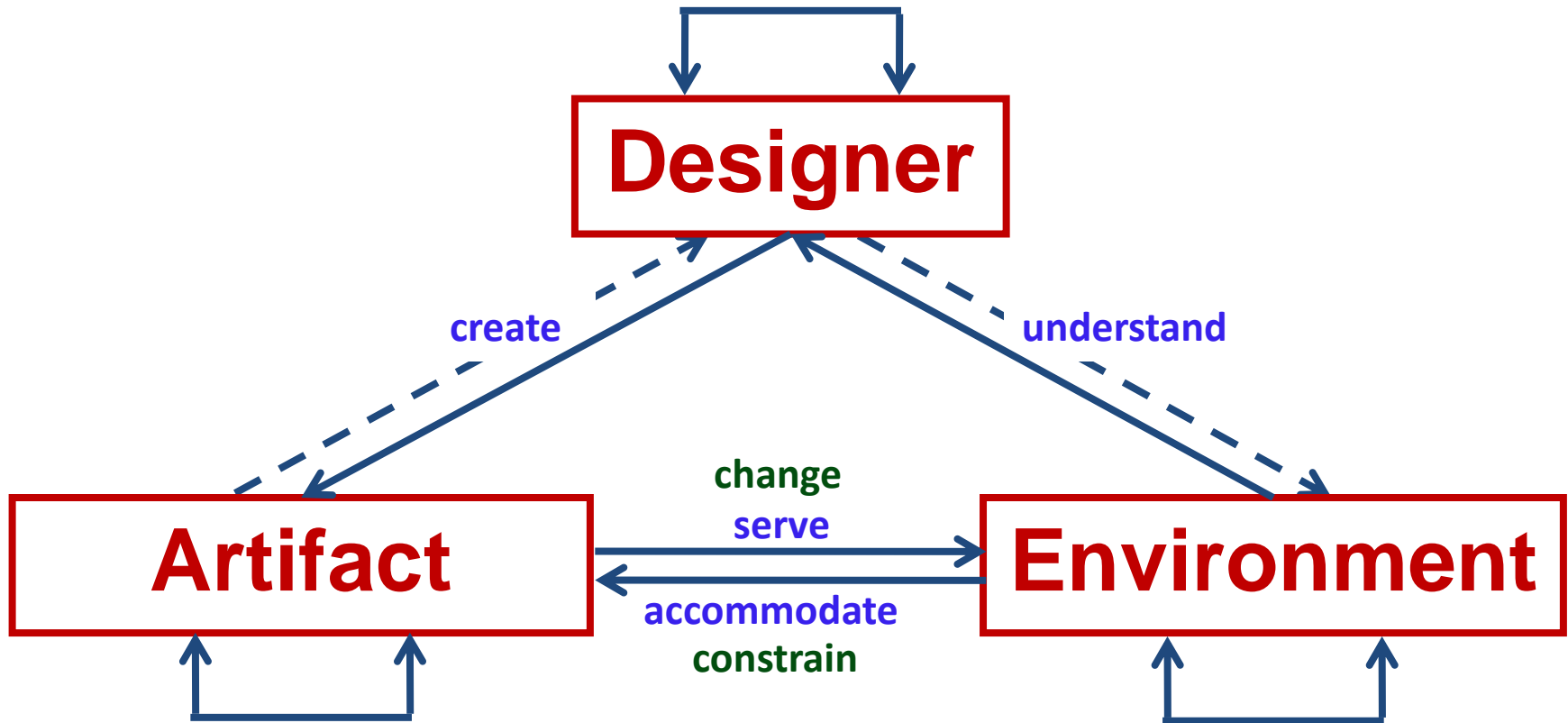
RQ2: how to create following a systematic approach?

➡ **Environment Based Design (EBD)**

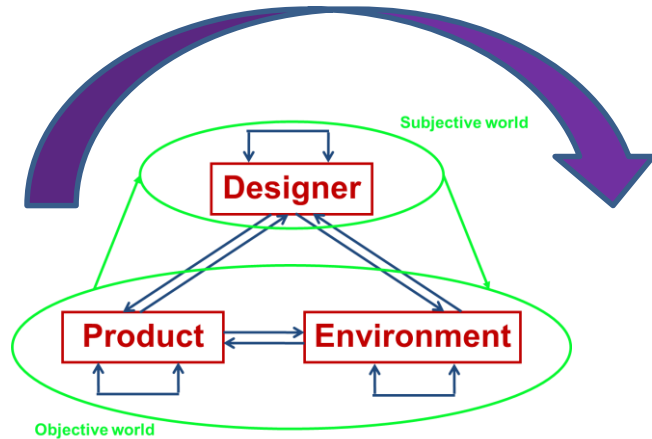
RQ3: how to improve the efficiency and effectiveness in developing innovative products and/or processes?

➡ **Industrial Applications**

Design: Object of Study

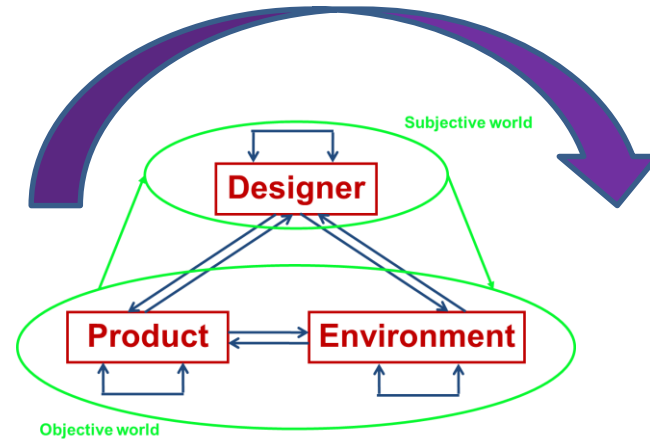


Hypotheses/Axioms/Laws



Reasoning

Logic of design



Emotion

Emotion of designers

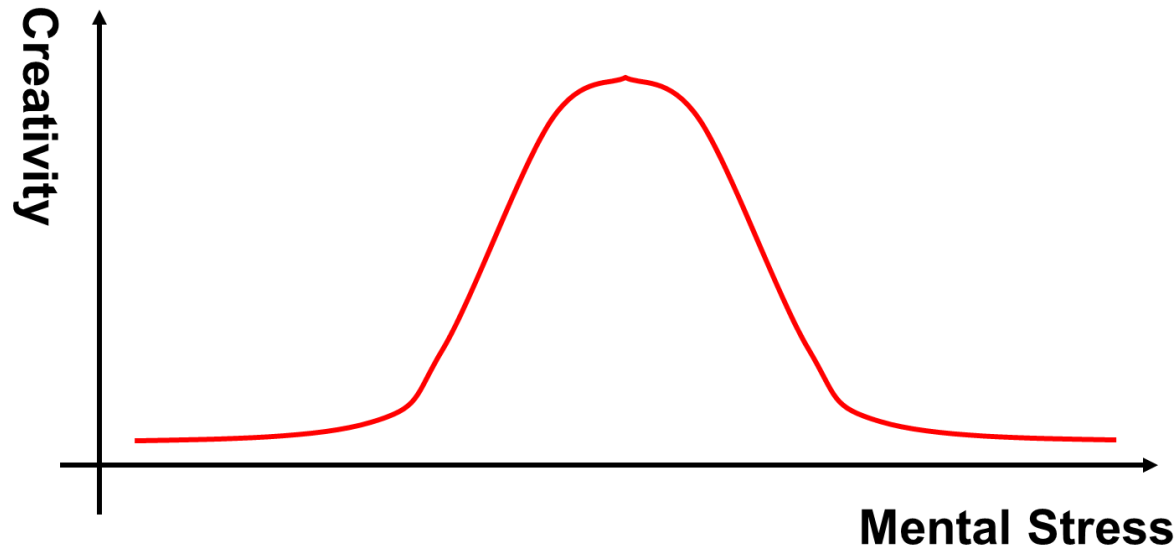
Y. Zeng and G. Cheng (1991), On the logic of design, *Design Studies*, Vol.12, No.3, pp.137-141.

T.A. Nguyen and Y. Zeng (2012), A theoretical model of design creativity: Nonlinear design dynamics and mental stress-creativity relation, *Transactions of the SDPS: Journal of Integrated Design and Process Science*. 16(3), pp. 65-88.

Neurocognitive study of design

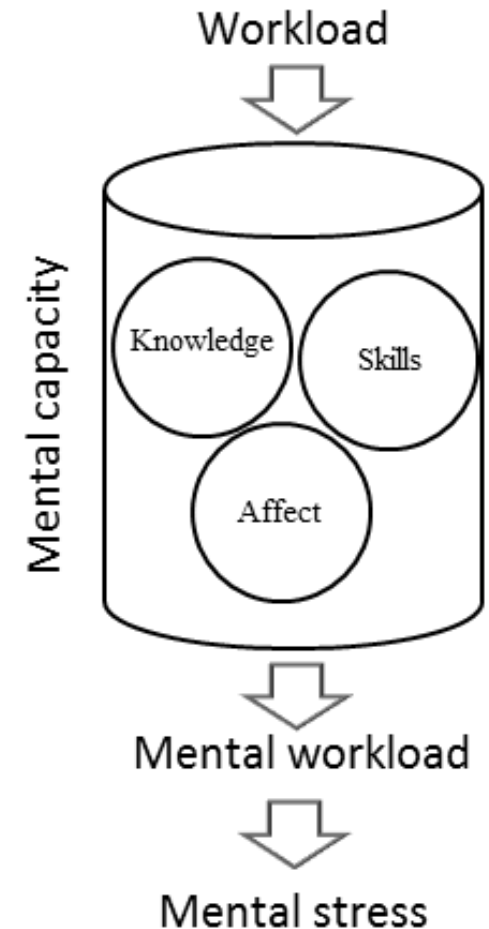


Factors that affect human mental stress



$$stress = \frac{Perceived\ Workload}{(Knowledge+Skills)*Affect}$$

$$Affect = f(stress), \quad Affect \in (0, 1)$$



Yerkes RM, Dodson JD (1908). ["The relation of strength of stimulus to rapidity of habit-formation"](https://doi.org/10.1002/cne.920180503). *Journal of Comparative Neurology and Psychology*. **18**: 459–482. doi:10.1002/cne.920180503.

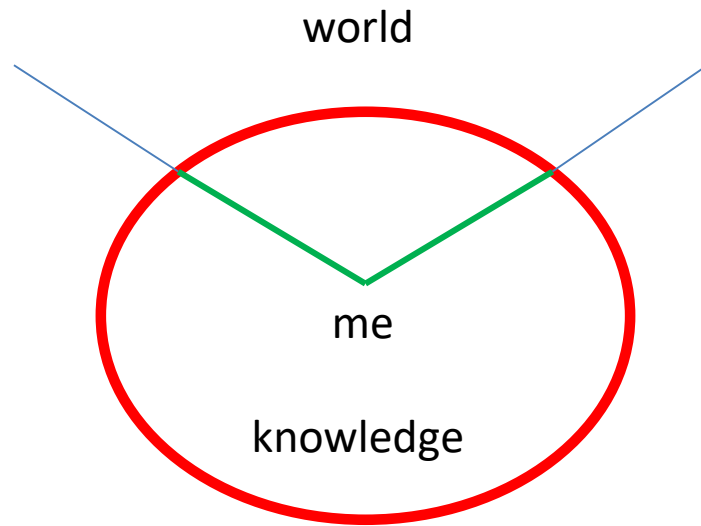
T.A. Nguyen and Y. Zeng (2012), A theoretical model of design creativity: Nonlinear design dynamics and mental stress-creativity relation, *Transactions of the SDPS: Journal of Integrated Design and Process Science*. 16(3), pp. 65-88.

- 追求自我实现
- 认可接受跟随 真理的神
- 认可接受跟随 道路的神
- 认可接受跟随 生命的神

追求自我实现

September 1982 – July 1986, B.Eng, Institute of Logistical Engineering

解放军后勤工程学院建筑工程系

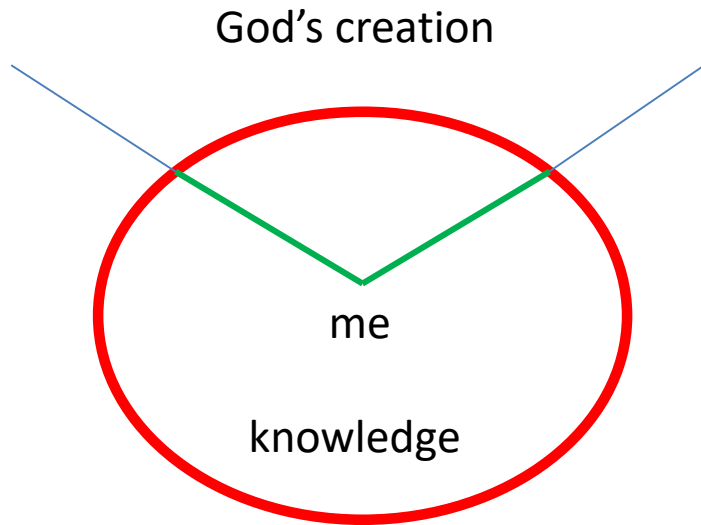


- **Worship success**
- **Fear to fail**
- **Feel insecure**

认可接受跟随 真理的神

9/1986 – 9/1989, M.Sc, Dalian University of Technology

大连理工大学计算力学

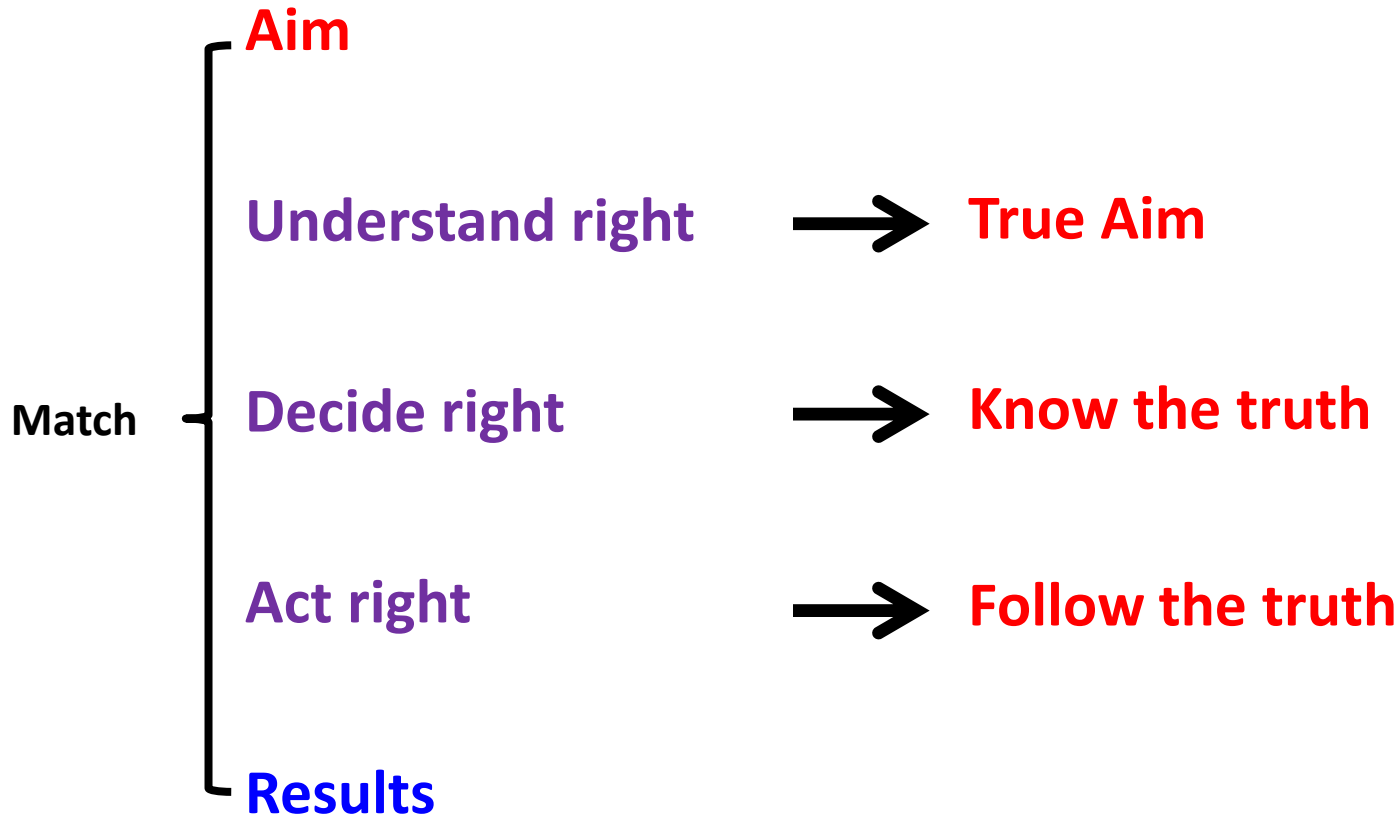


- **Worship truth as God**
- **Still want to succeed**
- **Accept failure**
- **Feel less insecure**

I will take care of my belief
in God after I succeed and
have time?

Or maybe I could take my
belief as my career...

How to achieve success



Seek and follow the truth, but how?

托尔斯泰文集



天国在你们心中



李正荣 王佳平 译

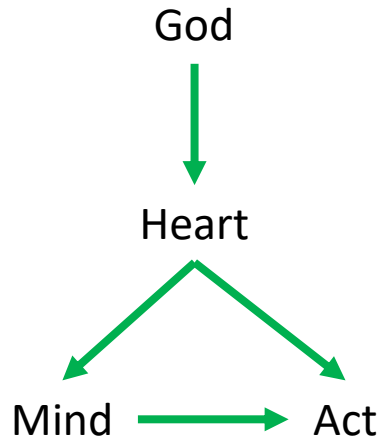


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认可接受跟随 道路的神

9/1986 – 9/1989, M.Sc, Dalian University of Technology

大连理工大学计算力学



Aim

Understand right

Decide right

Act right

Results

32 这都是外邦人所求的，你们 **需用的** 这一切 **东西**，你们的 **天父** 是知道的。

33 你们要 **先求他的国和他的义**，这些 **东西** 都要 **加给你们** 了。

馬太福音 6:33

Results

9/1986 – 9/1989, M.Sc, Dalian University of Technology

大连理工大学计算力学

- G.Cheng and Y. Zeng (1992), Strategies for automatic finite element modeling, Computers& Structures, Vol. 44, No. 4, pp. 905-909.
- Y.Zeng and G. Cheng (1991), On the logic of design, Design Studies, Vol.12, No.3,pp.137-141.

9/1992 – 6/1994, Lecturer, Associate Professor, Institute of Logistical Engineering

解放军后勤工程学院建筑工程系, 讲师, 副教授

- Y.Zeng and G. Cheng (1993), Knowledge based free mesh generation of quadrilateral elements in two dimensional domains, International Journal of Microcomputers in Civil Engineering, Vol. 8, No. 4, pp. 259-270.
- NSFC project
- Research Institute for Engineering Intelligence

³² 这都是外邦人所求的，你们需用的这一切东西，你们的天父是知道的。

³³ 你们要先求他的国和他的义，这些东西都要加给你们了。

馬太福音 6:33

Results

6/1994 – 10/1996, Lecturer, Associate Professor, Institute of Logistical Engineering

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- Struugles

Suffering is a blessing.

Romans 5: 1-5

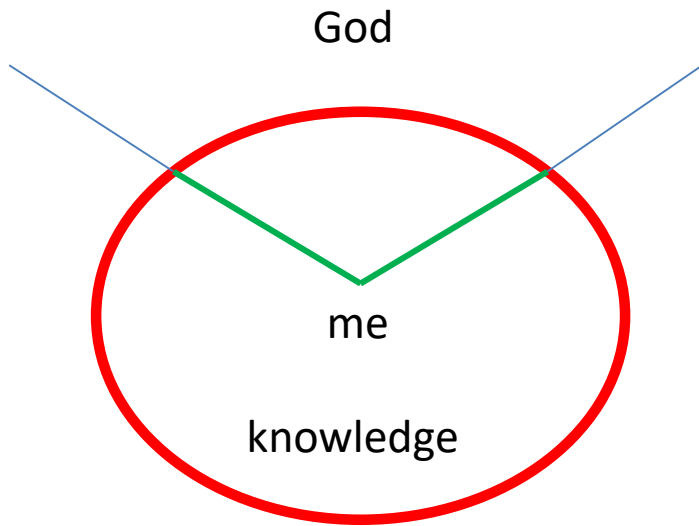
我们既因信称义，就藉着我们的主耶稣基督得与神相和。

²我们又藉着他，因信得进入现在所站的这恩典中，并且欢欢喜喜盼望神的荣耀。

³不但如此，就是在患难中也是欢欢喜喜的；因为知道患难生忍耐，

⁴忍耐生老练，老练生盼望；

⁵盼望不至於羞耻，因为所赐给我们的圣灵将神的爱浇灌在我们心里。



- **Seek first his kingdom and righteousness**
- **Look for perfection**

Results

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- 6/2001 – 1/2002, PDF, The University of Calgary
- 2/2002 – 7/2003, Research Associate, NRC-IMTI, Canada
- 8/2003 – 4/2010, Associate Professor, Concordia University

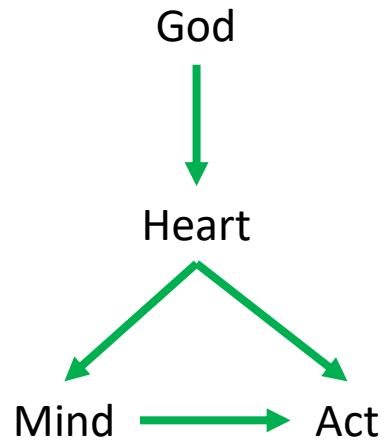
馬太福音 11:28-30 [Full Chapter]

凡劳苦担重担的人可以到我这里来，我就使你们得安息。我心里柔和谦卑，你们当负我的轭，学我的样式；这样，你们心里就必得享安息。因为我的轭是容易的，我的担子是轻省的。

	担子	轭	你们得
我(神)	轻省	容易	安息
你们(人)	重		劳苦

28 “Come to me, all you who are weary and burdened, and I will give you rest. 29 Take my yoke upon you and learn from me, for I am gentle and humble in heart, and you will find rest for your souls. 30 For my yoke is easy and my burden is light.”

认可接受跟随 生命的神



物我关系
神我关系
我我关系
他我关系

36 夫子，律法上的诫命，那一条是最大的呢？

37 耶稣对他说：你要尽心、尽性、尽意爱主—你的神。

38 这是诫命中的第一，且是最大的。

39 其次也相仿，就是要爱人如己。

40 这两条诫命是律法和先知一切道理的总纲。**(馬太福音 22:36-40)**

³⁶"Teacher, which is the greatest commandment in the Law?"

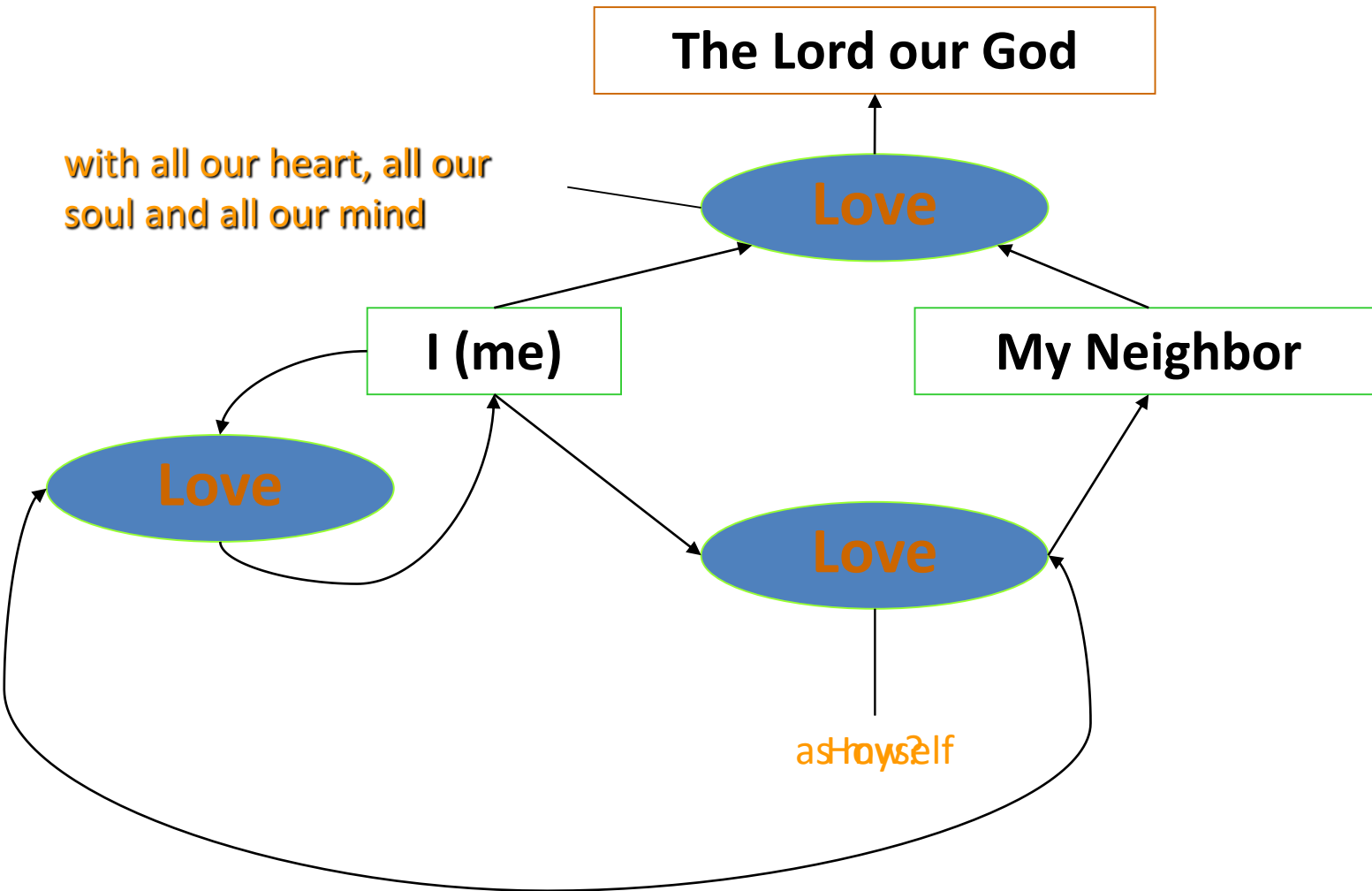
³⁷Jesus replied: " 'Love the Lord your God with all your heart and with all your soul and with all your mind.'

³⁸This is the first and greatest commandment.

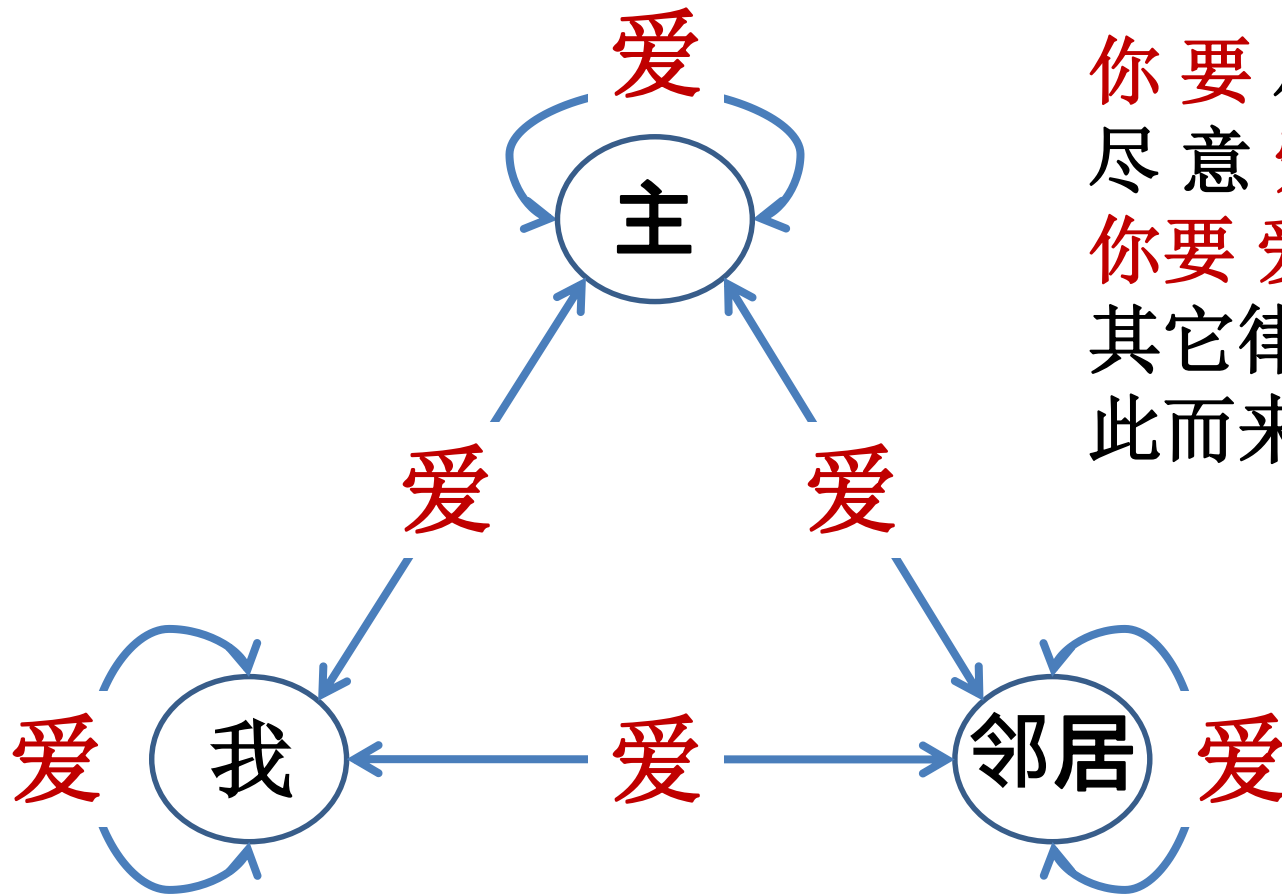
³⁹And the second is like it: 'Love your neighbor as yourself.'

⁴⁰All the Law and the Prophets hang on these two commandments."(Matthew 22:36-40)

Matthew 22:34-40



关系的律法



你要尽心、尽性、
尽意爱主
你要爱人如爱己
其它律法和道理都从
此而来

神的國就在你們心裡

先求他的國和他的義，

負我的軛，學我的样式

藉着他，因信得進入現在所站的這恩典中，

並且歡歡喜喜盼望神的榮耀。不但如此，就

是在患難中也是歡歡喜喜的

所賜給我們的聖靈將神的爱澆灌在我们心里。

尽心、尽性、尽意爱主—你的神，爱人如己