When You Walk by the Way

A Comparison of Structured Programming and Structured Bible Study (Deut 6:7, Proverbs 9:1-4, John 14:21-23)
Wisdoms-House.com

Overview

- Problem
  - Our focus on procedures and processes sometimes blinds us
    - Math includes lots of procedures and processes
  - We struggle to find a connection between mathematical truth and biblical truth
- Purpose
  - Deuteronomy 6:4-9 encourages us to look deeper into Creation to find our Creator
    - Passage was catalyst for homeschool movement
- Goals
  - Show parallels to biblical truth in Math and Computer Science
  - Demonstrate that there is "big story" in both programming and in our daily existence
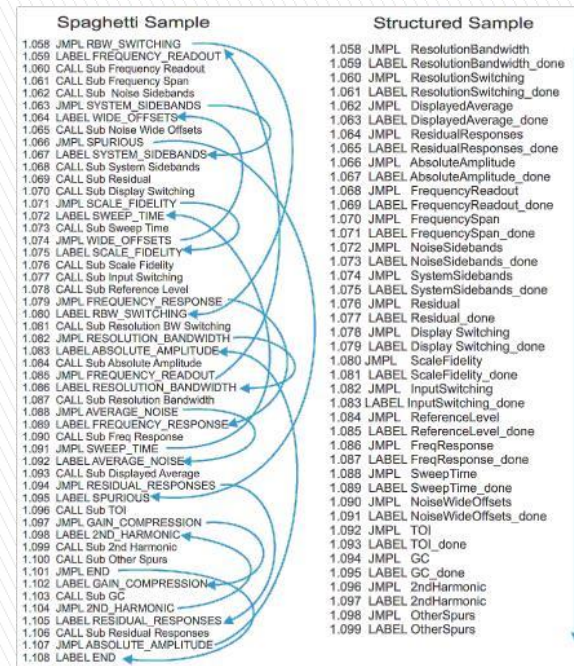- Approach
  - Compare how recent structured programming trends to manage computer code are related to two biblical structures: Life and Light
- Summary
  - Both structured programming and Bible structures show a master plan rather than happenstance
  - The life structure conveys our dependence upon the Creator (John 1:4, John 15:4,5)
  - The light structure conveys the sovereignty of Christ over creation(John 8:12)

Early Programming Methods

- Early computer programming methods were known as spaghetti code.
- Everything was everywhere
  - Difficult to follow
  - Prone to errors
  - Very inefficient due to erratic flow path for code execution
  - Not re-useable because code was not modular; it was too specific
  - Authors had good intent, but planning was lacking

Spaghetti Sample	Structured Sample
1.058 JMPL RBW_SWITCHING	1.058 JMPL ResolutionBandwidth
1.059 LABEL FREQUENCY_READOUT	1.059 LABEL ResolutionBandwidth_done
1.060 CALL Sub Frequency Readout	1.060 JMPL ResolutionSwitching
1.061 CALL Sub Frequency Span	1.061 LABEL ResolutionSwitching_done
1.062 CALL Sub Noise Sidebands	1.062 JMPL DisplayedAverage
1.063 JMPL SYSTEM_SIDEBANDS	1.063 LABEL DisplayedAverage_done
1.064 LABEL WIDE_OFFSETS	1.064 JMPL ResidualResponses
1.065 CALL Sub Noise Wide Offsets	1.065 LABEL ResidualResponses_done
1.066 JMPL SPURIOUS	1.066 JMPL AbsoluteAmplitude
1.067 LABEL SYSTEM_SIDEBANDS	1.067 LABEL AbsoluteAmplitude_done
1.068 CALL Sub System Sidebands	1.068 JMPL FrequencyReadout
1.069 CALL Sub Residual	1.069 LABEL FrequencyReadout_done
1.070 CALL Sub Display Switching	1.070 JMPL FrequencySpan
1.071 JMPL SCALE_FIDELITY	1.071 LABEL FrequencySpan_done
1.072 LABEL SWEEP_TIME	1.072 JMPL NoiseSidebands
1.073 CALL Sub Sweep Time	1.073 LABEL NoiseSidebands_done
1.074 JMPL WIDE_OFFSETS	1.074 JMPL SystemSidebands
1.075 LABEL SCALE_FIDELITY	1.075 LABEL SystemSidebands_done
1.076 CALL Sub Scale Fidelity	1.076 JMPL Residual
1.077 CALL Sub Input Switching	1.077 LABEL Residual_done
1.078 CALL Sub Reference Level	1.078 JMPL Display Switching
1.079 JMPL FREQUENCY_RESPONSE	1.079 LABEL Display Switching_done
1.080 LABEL RBW_SWITCHING	1.080 JMPL ScaleFidelity
1.081 CALL Sub Resolution BW Switching	1.081 LABEL ScaleFidelity_done
1.082 JMPL RESOLUTION_BANDWIDTH	1.082 JMPL InputSwitching
1.083 LABEL ABSOLUTE_AMPLITUDE	1.083 LABEL InputSwitching_done
1.084 CALL Sub Absolute Amplitude	1.084 JMPL ReferenceLevel
1.085 JMPL FREQUENCY_READOUT	1.085 LABEL ReferenceLevel_done
1.086 LABEL RESOLUTION_BANDWIDTH	1.086 JMPL FreqResponse
1.087 CALL Sub Resolution Bandwidth	1.087 LABEL FreqResponse_done
1.088 JMPL AVERAGE_NOISE	1.088 JMPL SweepTime
1.089 LABEL FREQUENCY_RESPONSE	1.089 LABEL SweepTime_done
1.090 CALL Sub Freq Response	1.090 JMPL NoiseWideOffsets
1.091 JMPL SWEEP_TIME	1.091 LABEL NoiseWideOffsets_done
1.092 LABEL AVERAGE_NOISE	1.092 JMPL TOI
1.093 CALL Sub Displayed Average	1.093 LABEL TOI_done
1.094 JMPL RESIDUAL_RESPONSES	1.094 JMPL GC
1.095 LABEL SPURIOUS	1.095 LABEL GC_done
1.096 CALL Sub TOI	1.096 JMPL 2ndHarmonic
1.097 JMPL GAIN_COMPRESSION	1.097 LABEL 2ndHarmonic
1.098 LABEL 2ND_HARMONIC	1.098 JMPL OtherSpurs
1.099 CALL Sub 2nd Harmonic	1.099 LABEL OtherSpurs
1.100 CALL Sub Other Spurs	
1.101 JMPL END	
1.102 LABEL GAIN_COMPRESSION	
1.103 CALL Sub GC	
1.104 JMPL 2ND_HARMONIC	
1.105 LABEL RESIDUAL_RESPONSES	
1.106 CALL Sub Residual Responses	
1.107 JMPL ABSOLUTE_AMPLITUDE	
1.108 LABEL END	

Spaghetti Code

A Flowchart Diagram of Spaghetti Code

Structured Programming Trends

- Start with a central place to begin code
  - A table of contents, overview, synopsis, hub of wheel
    - Main program in C language
    - Winmain program in Windows
- Make code reusable as to not reinvent the wheel
  - Inher_____
  - Associate code with like services or kinds: cla____ by using abstra_____
- Allow code to be re-named
  - Polym_____
- Control access to code and grant tiered user privileges
  - Encaps_____
- Make Multi-platform code
  - Java: Write Once Run Any_____ (WORA)

Modern Views of the Bible

- The Author had good intentions, but it is not planned very well
  - Difficult to follow
  - Prone to errors due to many aut___
  - Very inefficient due to erratic construction, dis_____
  - Mere compilation of inspir_____ stories, at best
  - Scripture is not for the practical (daily use, secular), only the spiritual (Sunday use, sacred)
    - For example, where is Algebra and logic in the Bible?

- A search of the web definitions of post-modernism leads to this catch phrase: "incredulity towards metanarratives". It means that our current generation has serious doubts that there is a "big story" to explain our lives.

| We tend to think of the Bible like Spaghetti Code | Post Modernism |

Hidden "Life" Structures in Bible

▸ Sermon on the Mount has "life" Decalogue structure (Matt 5-7)
  ◦ Roots and Fruits, Tree of Life
    • Fruits, Cmds 6-10, are explicit in Matt 5-7 text
    • Roots, Cmds 1-5, are implicit in Matt 5-7 text
  ◦ Roots and Fruits are reused as in polymorphism, inheritance
    • Are the Essence of Engineering Development Cycle
  ◦ Re-use similar to Write Once Run Anywhere (WORA, Java)
    • Leviticus, James, Tabernacle, John 15:4-5, John 12-17, Parable of Sower etc.
  ◦ They are hidden as in encapsulation (Matt 13:34,35)

Hidden Light Structure in Bible

- Deuteronomy has a Decalogue Structure
  - Baker Bible Commentary (on Deuteronomy), Walter C. Kaiser Jr., pp107,
  - Toward OT Ethics, Walter C. Kaiser Jr. pp 127
  - Uses Chap 5 as thesis or overview like C language "main", or windows "winmain"
- Decalogue separates into Double-Sided Morals, opposites, light
  - "Toward Old Testament Ethics", Walter C. Kaiser Jr., pp 65,83-84
  - **Gospel of John** has both "light" and "life" Decalogue structures,
  - "Light" Decalogue structure explains seven day Creator/creation themes (Jn 1-12)
  - 1John1-2 groups Physical laws (Gen1:31), Moral laws (Deut 30:15), and Creator (John 1:14) together
- Seven pillars of Wisdom's House (Prov 9:1-4, John 14:21-23)

John's Gospel Has Both Life and Light Structures of Decalogue

- In him was **life**, and the **life** was the **light** of men. The **light** shines in the darkness, and the darkness has not overcome it.
- (Joh 1:4-5)

- I have come as a Light into the world, so that whoever believes on Me should not remain in darkness. And if any one hears My Words and does not believe, I do not judge him, for I do not come to judge the world, but to save the world.(Joh 12:46-47)

Roots and Fruits of Decalogue in Sermon on the Mount: Life

- Discovery of Deuteronomy Structure (1859, 1913, 1966, 1979)
- Other uses of roots and fruits: Leviticus, James, Tabernacle, John 15:4-5, John 12-17, Parable of Sower, Pentateuch Themes, etc.

Matt Chapter 5	Matt Chapter 6	Matt Chapter 7
6. Do not kill. (Be forgiving, kind)	9. Do not bear false witness False witness in prayer, alms and fasting. Religious externalism (Seek spiritual truth)	10. Do not Covet (Be content)
7. Do not commit Adultery (Be pure)		
8. Do not Steal. (Be diligent) ; Eighth Command in Deuteronomy : Divorcement, Oaths , Justice http://biblical-studies.ca/pdfs/Decalogue_and_Deuteronomic_Laws.pdf	10. Do not Covet (Be content)	

Connecting Decalogue Roots to the Fruits in the Sermon on the Mount (Jn15:4-5)

1. Because we have been redeemed (1st command), we must forgive (6th command)[Matt 5:21-26, unforgiving servant]

2. Physical infidelity (7th command) is rooted in spiritual infidelity (2nd command)[Matt 5:27-30, Hos1:2]

3. If we take possession of that which belongs to the Lord (8th , we steal and take His name in vain (3rd command [Matt 5:31-48, Matt 21:33-45, Matt 24:45:51, Jas 4:13-17], Pro 30:8,9, Matt25:16-29, Luk19:11-17)

4. Deceit (9th command) occurs when we look at the outward appearance, or temporal circumstances to the exclusion of the spiritual circumstances (the Sabbath, or 4th command) [Matt 6:1-18, Jas 2]

5. When the Lord is our Shepherd (Ps 23) or Father [Matt 7:11](5th command), we do not lack anything (10th command)[Matt 6:19-7:11]

Connecting Decalogue Roots to the Fruits in the Sermon on the Mount (Jn15:4-5)

- "Christians have normally divided the Ten Commandments into the first four (directed towards God) and the last six (directed towards their fellow man). But the Jews divided the commandments in two sets of five, seeing the law to **honor your father and mother** more as a duty towards God than a duty towards man."

- David Guzik Commentary on Ephesians 6:1-3 (part c), https://enduringword.com/bible-commentary/ephesians-6/

Double Sided Morals of Decalogue: Light

- Comes From Double-Sided Morals "Toward Old Testament Ethics", Walter C. Kaiser Jr. pp 65, 83-84
- Used in Genesis, Deuteronomy, Proverbs, John 1-12, Beatitudes, Colossians 3 (old man and new man)

Ten Commandment Opposites: Double-sided Morals
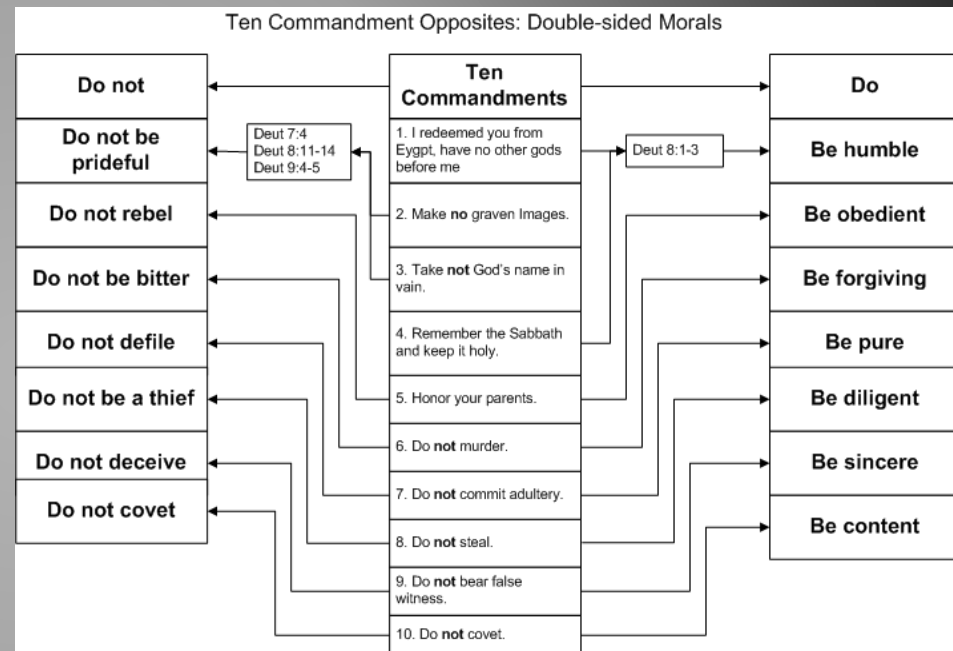
See http://www.wisdoms-house.com/G&T/V&V/VVNDtJn.html

See http://wisdoms-house.com/G&T/V&V/OldMan_vs_NewMan_vs_V&V_Col3.pdf

Creation/Creator Themes from 1Jn1-2, John 1-12

Gen (the beginning , Spoken Word)	Deut (we have heard Mt Horeb, Written Wd	John (we have seen, Living Word)
1. Light (will of God) [Gen 1:3-5]	Humility	**Omniscient Sovereign** [Gen 1:1, Jn 1:9]
2. Water, Sky(Air) [Gen 1:6-8]	Obedience	**Sustainer of Life** [Gen 1:6, Jn 2]
3.Seed, Plants, Soil, Seas [Gen 1:9-13]	Forgiveness/Mercy	**Redeemer** John 3:3, Jn 3:14
4. Sun, moon, stars, seasons[Gen 1:14-19]	Purity/Fidelity	**Bridegroom** [Jn 3:16-17, Ps19:5,6 Jn3:18-21
5.Birds and Fish (orders and ranks)[Gen 1:20-22]	Diligence/ Industry	**King(executive officer)/Judge** [Jn 4:34-38 , Jn 5:22-47]
6. Adam [Gen1:23-31]	Honesty/ Uprightness/Truth	**Last Adam(Good Shepherd)**[Jn 6-10]
7. Sabbath [Gen 2:1-3]	Gratitude	**Rest** [Jn 11:41]

Summary of Life and Light Structures

- Programming trends to manage and reuse code reflect biblical truth
- The sermon on the mount relates the Tree of Life (Gen) to "The Vine" in John 12–17
- The book of John Chapters 1 through 12 describes "light" by abstracting Decalogue opposites. John relates these moral laws of Deuteronomy (Deut 30:15) to the physical laws of Genesis (Gen 1:31). Previous scholars have called this depiction of God and creation "Creation Ordinances".
- See Wisdom's House Premise in blog: Finding Shelter from Current Social Storms in Two Hidden Biblical Structures for more details http://wisdoms-house.com/
- See Warfare Against Seven-Headed Beast (Rev 12:17)