

# CHILDREN OF THE CODE

Children of the Code: The JEWELS (H.264) - Disc 1

**File Name Convention:** (Video segment clip appeared in — Interviewee or source — Quote or description of essence)

## WHAT'S AT STAKE— 29 Clips

Academic Danger - Hanushek - They Fall Back	00:00:33
Academic Danger - Moats - Fundamental Problem Not Addressed	00:00:43
Closing What's At Stake - COTC - Mind Shame	00:00:51
Democracy - Drucker - Literacy and Democracy	00:00:14
Democracy - Shanahan - Ballot Errors	00:00:30
Economy - Thompson - Economic Risk	00:00:35
Emotional Danger - Hennessy - What Must It Be Like	00:00:26
Emotional Danger - Lavoie - It Generalizes	00:00:34
Emotional Danger - Nayo - Mekyes Story	00:00:57
Health - Shanahan - 40 Percent of Hospitalizations	00:00:15
Intro What's At Stake - COTC - Brain Work Not Transparent To Learning	00:00:27
National LD - Numerous - YES LD	00:00:22
Poverty - Bush - Poverty and Literacy	00:00:23
Poverty - Shanahan - Even Low Level Jobs Require Literacy	00:00:56
Price Tags - Thompson - Trillions May Be Underestimate	00:00:43
Price Tags - Whitehurst - Hundreds of Billions	00:00:14
Reading Crisis - Lyon-Wendorf - Majority of Student Below Prof	00:00:34
Reading Crisis - Wedgeworth - 93 Million Adults	00:00:12
Reading Matters - Stanovich - Does Reading Make You Smarter	00:00:14
Reading Matters - Stanovich - Vocabulary Growth	00:00:16
Reframe - Darling - Problem Getting Worse	00:00:16
Reframe - Lyon - The Big Deal	00:00:09
Reframe - Moats - Lack Of Insight	00:00:09
Reframe - Olson - Fooling Ourselves	00:00:08
Reframe - Whitehurst - Need To Reconceptualize	00:00:08
Social Danger - Lavoie - Bad Rather Than Dumb	00:00:17
Social Danger - Tallal - Cant Trust Your Brain	00:00:28
Social Danger - Tallal - Social Pathologies	00:00:33
Social Danger - Whitehurst-Lavoie - Prison Cells	00:00:35

## WHAT IS READING — 12 Clips

Closing - COTC - Code Confusion	00:00:42
Dialogue - Allington - Code Virtualized Language	00:01:08
Dialogue - Farkas - Brightness	00:01:10
Dialogue - Perfetti - Most Kids Underwater	00:00:48
Intro - COTC - Artificial Overlay To Language	00:00:20
Magic of Reading - Abram - Under Its Spell	00:00:43
Player Piano - COTC - Animated	00:00:31
Recent Invention - Abram - Most Of Existence Without Writing	00:00:08
Technology - Olson - Contrived Device	00:00:06
Unnatural - Moats - Artificial Act	00:00:05
Voice Inside - Rayner - Do You Hear Your Voice	00:00:11
What Is Reading - COTC - Animated	00:00:23

## UNNATURAL CONFUSION — 13 Clips

Close - COTC - Not Like DNA Or Software	00:00:40
Intro - COTC - The Heart Of The Challenge	00:00:21
Unnatural Confusion - Adams - What Are The Rules	00:00:09
Unnatural Confusion - Drucker - Roots Of Confusion	00:00:25
Unnatural Confusion - Engelmann - Exceptions	00:00:10
Unnatural Confusion - Engelmann - Letters	00:00:17
Unnatural Confusion - Fisher - Alpha Not For English	00:00:10
Unnatural Confusion - Fisher - Madness	00:00:05
Unnatural Confusion - Moats - It's A Real Puzzle	00:00:09
Unnatural Confusion - Moats - The R	00:00:10
Unnatural Confusion - Stanovich - Good Way To Frame Things	00:00:12
Unnatural Confusion - Steinbeck Quote	00:00:16
Unnatural Confusion- Comparison Sequence	00:00:41

You can download copies of this index at:  
<http://www.childrenofthecode.org/Digital/Jewels - Disc 1.pdf>

**READINESS — 34 Clips**

Emotion and Cognition - Greenburg - Emotion Drives Language	00:00:54
Emotion and Cognition - Greenburg - No Cognition Without Emotion	00:00:14
Emotion and Cognition - Merzenich - Modulators Of Learning	00:01:05
Emotion and Cognition - Nathanson - Affects	00:00:37
Emotion and Cognition - Shonkoff - Strong Science	00:00:21
Foundations - Deacon - Organizing Principle	00:00:08
Foundations - Deacon-Lyon - Behind in Vocab Development	00:00:18
Foundations - Farkas - Kids Talk Like Their Parents Do	00:00:17
Foundations - Lyon - PreK-1 Behind The Curve	00:00:11
Foundations - Merzenich - Dominated By Language	00:00:14
Foundations - Merzenich - Experiential Source	00:00:14
Foundations - Riskey-Engelmann - Millions Of Differences In Exposure	00:00:22
Foundations - Searle - Exponential Growth	00:00:14
Foundations - Tallal - Oral To Written Language Continuum	00:00:37
Foundations - Tallal - Sets Up Our Brain	00:00:07
Foundations - Tallal - Sounds Inside Words	00:00:35
Language - Deacon - Symbolic Species	00:00:13
Language - Lyon - Every Consonant And Vowel	00:00:17
Language - Tallal - Language Makes Us Human	00:00:14
Meaningful Differences - Riskey - 12 To 50 Million Words	00:01:23
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Meaningful Differences - Riskey - Emotional Consequences	00:01:33
Nature and Nurture - Deacon - Info To Build Brains Not In Genes	00:00:09
Nature and Nurture - Merzenich - Resources And Influences	00:00:09
Nature and Nurture - Merzenich - Self-Organization	00:00:38
Nature and Nurture - Shonkoff - Experience and Gene Expression	00:00:26
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Nature and Nurture - Tallal - Brains Are Learning Machines	00:00:24
Readiness - Hanushek - Huge Differences	00:00:13
Readiness - Heckman - Coleman-Family Plays Larger Role	00:00:10
Readiness - Heckman - How Do Kids Get Reading Ready	00:00:06
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Sensitive Slopes - Merzenich - Skill Builds On Skill	00:00:37
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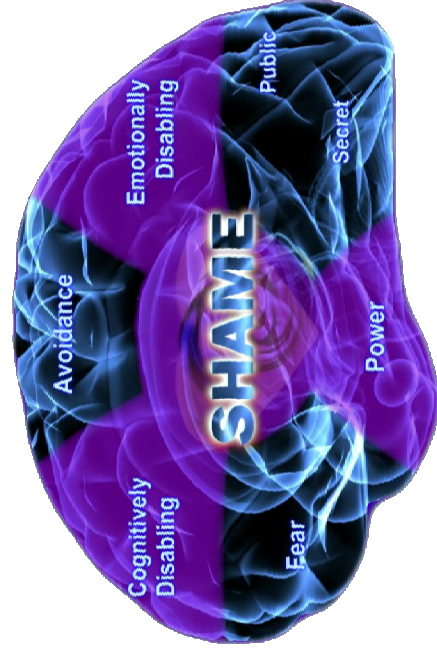
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Dyslexia - Engelmann - Cant blame Teachers	00:00:20
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Dyslexia - Moats - So Misconceived	00:00:28
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ESL - COTC - The Language Gap	00:00:40
ESL - Kameenui - Not The Words They Own	00:00:21
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Parents - Wedgworth - Kids Performance Reflects Parents	00:00:24
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Resistance - Barksdale - Not Seeing Results	00:00:57
Resistance - Hennessy - Don't Have The Will	00:00:21
Superficial Thinking - Shanahan - Hasn't Worked for 500 Years	00:00:13
Superficial Thinking - Haberman - More Like Cults	00:00:15



**SHAME — 25 Clips**

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Cognitive LD - Granzin - Maladaptive Feedback Cycle	00:00:30
Cognitive LD - Greenburg - Taking Up M Space	00:00:47
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Emotional LD - Engelmann - See It In Their Behavior	00:00:32
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Emotional LD - Moats - None Of Us Gravitates	00:00:13
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Fear of Shame - Nathanson - The Expectation Of Shame	00:00:19
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Power of Shame - Lavoie - Ear Story	00:01:41
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Public Shame - Reder - Terribly Humiliating	00:00:12
Shame - Lyon - Proxy For Intelligence	00:00:38
Shame Avoidance - Greenburg - Aversion	00:01:04
Shame Avoidance - Nathanson - Wouldn't They Be Stupid	00:00:26



**THE BRAIN'S CHALLENGE — 43 Clips**

Asynchrony - Audio-Visual Demonstration	00:00:52
Asynchrony - Breznitz - Two Modes Must Sync	00:00:40
Asynchrony - COTC - Out Of Sync	00:00:44
Automaticity - Adams - Importance of Quick Recognition	00:00:13
Automaticity - Adams - Lost The Meaning	00:00:09
Automaticity - COTC - Faster Than Thought	00:00:55
Automaticity - Deacon - Computational Nightmare	00:00:43
Automaticity - Deacon - Problem Of Automatization	00:00:15
Automaticity - Drucker - Connecting 2 Codes	00:00:39
Automaticity - Moats - Processors Work In Concert	00:00:13
Brain's Challenge - COTC - Overview	00:00:54
Disambiguation - COTC - The Processing Bottleneck	00:00:26
Disambiguation - COTC-Tallal - The Stutter That Breaks Down Reading	00:00:45
Disambiguation - Merzenich - Fuzziness Between Letters and Sounds	00:01:00
Disambiguation - Tallal - Processing Dance In The Brain	00:01:08
Downward Spiral of Shame - COTC - The Cognitive Implications Of Shame	00:00:56
Eye Movements - Rayner - Movements Reflect Processing	00:00:07
Eye Movements - Rayner - Speed Related To Word Difficulty	00:00:25
Eye Movements - Rayner - Staggeringly Fast	00:00:38
Letters - COTC - Representational Placeholders	00:00:18
Letters - Engelmann - Changes Name When Position Changed	00:00:16
Letters - Rayner - Coordinating The Eyes	00:00:29
Matthew Effects - Stanovich - Accumulative Advantages	00:01:19
Morphology - Moats - Great Untapped Need	00:00:23
Phonemic Awareness - COTC - Quantum Semantic Elements	00:00:33
Phonemic Awareness - Lindamood - Code Requires Conscious Awareness	00:00:19
Phonemic Awareness - Lyon - Smallest Units Of Sound	00:01:02
Processing Distinctions - COTC - Differentiation	00:00:19
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Temporal Profile - Tallal - Speed of Speech.	00:00:42
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Vocabulary - Adams - You've Had It	00:00:07
Vocabulary - Perfetti - Vocabulary Bootstraps Decoding	00:00:12
Word Recognition Speed - Kail - Working Memory	00:00:26
Word Recognition Speed - Lyon - Memory and Attention	00:00:16
Word Recognition Speed - Lyon - Slow And Labored	00:00:16
Word Recognition Speed - Moats - Getting Up To Speed	00:00:11
Word Recognition Speed - Perfetti - Fluency Bottleneck	00:00:08