

Abnormal Psychology - Annette Hillers-Chen

Spring Semester 2018

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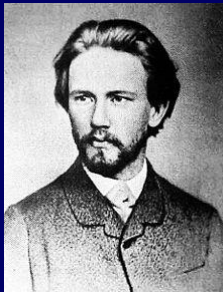
Office hours: Mon 10-11h



5. Mood disorders

Motivation (1)

“melancholia”



Pyotr Il'yich
Tchaikovsky

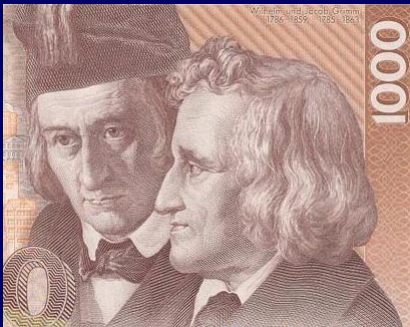


Ludwig van
Beethoven

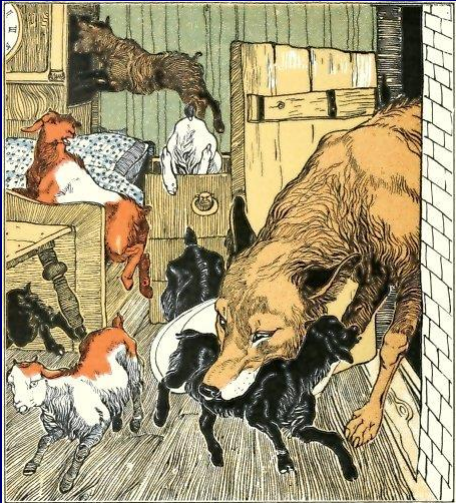


Robert Alexander
Schumann

Motivation (2)



Wilhelm Grimm (left)
1786-1859



Robert Schumann's works across lifetime







From: Daverio, J. (1997) Robert Schumann: A Herald of a "New Poetic Age." New York: Oxford University Press.



Andreas Lubitz

(1987-2015)

A portrait of Andreas Lubitz, a man with short brown hair, wearing a dark baseball cap and a dark jacket, smiling. The background is a scenic view of a mountain range with green valleys and blue skies.



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Example: Mary

A portrait of Mary, a woman with long, curly blonde hair, wearing a dark jacket over a light-colored shirt, smiling. The background is a plain, light-colored wall.



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“Depression”



- Mostly used for what is called a “Major Depressive Disorder (MDD)”, sometimes also called “unipolar depression”.
- Sometimes used for “Major Depressive Episode (MDE)”
- A person diagnosed with MDD had at least one MDE, but not vice versa.
- A MDE is also a constituent of Bipolar I and Bipolar II disorder.
- For MDD, there has never been a reasonably long manic or hypo-manic time in a person’s life.

Depressive disorders in DSM-5



- Disruptive mood dysregulation disorder (age 6-18 only)
- Major Depressive Disorder (MDD)
- Persistent depressive disorder (dysthymia)
- Premenstrual dysphoric disorder
- Substance/Medication-induced depressive disorder
- Depressive disorder due to another medical condition
- Other specified/unspecified depressive disorder

Major Depressive Disorder



- A. Presence of 5 symptoms for at least 2 weeks, one of them depressed mood or loss of interest/
- B. Distress/impairment
- C. Exclusion of substance/medical condition
- D. Exclusion of schizophrenia spectrum disorders
- E. Exclusion of prior (hypo-)manic episodes

Specifiers

- Severity: mild, moderate, severe
- Course: chronic, in full/partial remission
- Characteristics:
 - With anxious distress (p. 184)
 - With mixed features (pp. 184–185)
 - With melancholic features (p. 185)
 - With atypical features (pp. 185–186)
 - With mood-congruent psychotic features (p. 186)
 - With mood-incongruent psychotic features (p. 186)
 - With catatonia (p. 186). **Coding note:** Use additional code 293.89
 - With peripartum onset (pp. 186–187)
 - With seasonal pattern (recurrent episode only) (pp. 187–188)



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Common characteristics of depression



- Depressed mood (sad, empty, hopeless, tearful; in children: irritable)
- Diminished interest or pleasure in all activities
- Weight loss/gain
- Insomnia or hypersomnia
- Psychomotor agitation or retardation
- Fatigue, loss of energy
- Worthlessness, excessive guilt
- Diminished concentration span, indecisiveness
- Thoughts of death, suicidal ideation, or attempted suicide



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Depression vs. grief



Depression

- Focus: inability to anticipate joy
- More persistent
- Tied to preoccupations (e.g. self-criticism)
- Lack of self-esteem; feelings of worthlessness
- Thoughts about death: feeling of worthlessness or inability to cope with the pain

Grief

- Focus: loss, emptiness
- Decrease in intensity with pangs of grief
- Preoccupation with deceased
- Accompanied with positive emotions and humor
- Self esteem preserved
- Thoughts about death: "joining the deceased"




Dysthymia




- Milder version of depression
- Depressed mood present most of the day for more days than not at least for 2 years
- At least two of the following symptoms:
 - Poor appetite and overeating
 - Insomnia or hypersomnia
 - Low energy or fatigue
 - Low self-esteem
 - Poor concentration or difficulty making decisions
 - Feelings of hopelessness



Depression - Statistics



- Prevalence
 - Point: 1.5-4.9%
 - Life-time: 4.4-18% (men 12%, women 26%)
 - One-month P. China: 6% (Phillips et al., 2009)
- Course
 - Peak period: age 18-25 years; China: evtl. later!
 - 25% last < 1 month, 50% < 3 months, 75% < 6 months
 - **Highly recurrent**: 50% with one episode and 80% of those with two episodes will have another one
 - 77% show comorbidity (some articles claim 90-93% comorbidity!)



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Country	Mood
Americas	
Colombia	6.8 (6.0-7.7)
Mexico	4.8 (4.0-5.6)
United States	9.6 (8.8-10.4)
Europe	
Belgium	6.2 (4.8-7.6)§
France	8.5 (6.4-10.6)§
Germany	3.6 (2.8-4.3)§
Italy	3.8 (3.1-4.5)§
Netherlands	6.9 (4.1-9.7)§
Spain	4.9 (4.0-5.8)§
Ukraine	9.1 (7.3-10.9)§
Middle East and Africa	
Lebanon	6.6 (4.9-8.2)
Nigeria	0.8 (0.5-1.0)
Asia	
Japan	3.1 (2.2-4.1)
People's Republic of China	
Beijing	2.5 (1.5-3.4)
Shanghai	1.7 (0.6-2.9)

WHO study (2001-2003)

12-month prevalence rates across countries



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WHO study (2001-2003)

Beijing & Shanghai



Life-time prevalence

MDD: 3.5%

	Prevalence, % (S.E.)				
	Total	Age (yr)			
		18-34	35-49	50-64	≥ 65
Mood disorders					
Major depressive disorder	3.5 (0.4)	4.1 (0.8)	2.9 (0.4)	3.9 (0.7)	2.6 (0.7)
Dysthymia	0.1 (0)	0 (0)	0.2 (0.1)	0.3 (0.2)	0 (0)
Bipolar I-II disorders	0.1 (0)	0.1 (0.1)	0.1 (0.1)	0 (0)	0 (0)
Any mood disorder	3.6 (0.4)	4.2 (0.8)	3.1 (0.4)	4.0 (0.7)	2.7 (0.7)

Twelve-month prevalence and severity of DSM-IV disorders

Diagnosis	Any severity			Serious		Moderate		Mild	
	%	(S.E.)	χ^2_{2n}	%	(S.E.)	%	(S.E.)	%	(S.E.)
Mood disorder									
Major depressive disorder	2.0	(0.3)	1.0	16.5	(5.4)	51.1	(7.9)	32.4	(7.7)
Dysthymia	0.1	(0.1)	0.0	46.4	(17.7)	53.6	(17.7)	0.0	(0.0)
Bipolar I-II disorders	0.1	(0.1)	0.3	100.0	(0.0)	0.0	(0.0)	0.0	(0.0)
Any mood disorder	2.2	(0.4)	0.7	21.4	(6.7)	48.6	(7.6)	29.9	(7.3)



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	Mood	
	OR	(95% CI)
Sex		
Male	1.0	—
Female	0.8	(0.4-1.4)
χ^2	0.8	
Age (yr)		
18-34	2.0	(0.8-4.8)
35-49	0.9	(0.4-1.9)
50-64	—	—
65+	1.0	—
χ^2	3.5	
Income		
Low	1.8	(0.7-4.6)
Low-average	2.8*	(1.1-7.1)
High-average	1.0	(0.4-2.3)
High	1.0	—
χ^2	8.0*	
Marital status		
Married/cohabiting	1.0	—
Separated/widowed/divorced	2.8*	(1.0-7.6)
Never married	0.4	(0.1-1.2)
χ^2	7.7*	

Odds ratios (OR) (1)


predicting the 12 months prevalence
Shanghai and Beijing (Shen et al., 2006)



- Low-average income (vs. high): 2.8
- Separated (vs. married): 2.8

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Correlate	OR	P-value	Odds ratios (OR) (2)	
Demographics			 <p>He et al. (2012) <i>Risk for depression in “left-behind children” in rural China vs. children in a common family situation (controls)</i></p> <ul style="list-style-type: none">• $n_{(\text{left-behind})} = 590$• $n_{(\text{control})} = 285$• Age group: 9-14 years• Hebei Province	
Sex	0.89	0.55		
Age	1.16	0.27		
Grade	0.85	0.37		
Only child	0.77	0.16		
Left-behind/controls				
Controls	1.00			
Migrant fathers	3.42	< 0.01		
Migrant mothers	2.62	< 0.05		
Migrant parents	2.73	< 0.01		
SES				
Middle	1.00			
Low	2.64	< 0.01		
High	1.14	0.54		
Social support				
Middle	1.00			
Low	5.86	< 0.01		
High	0.50	< 0.05		
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Age-of-onset percentiles for LTP(75)

Beijing and Shanghai (Lee et al., 2007)

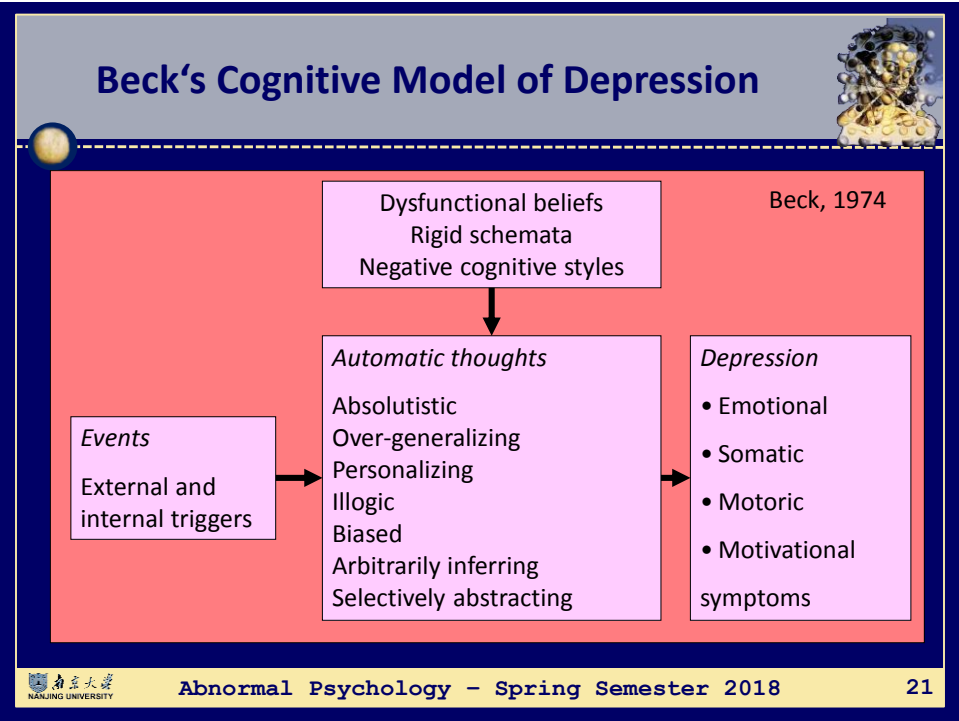
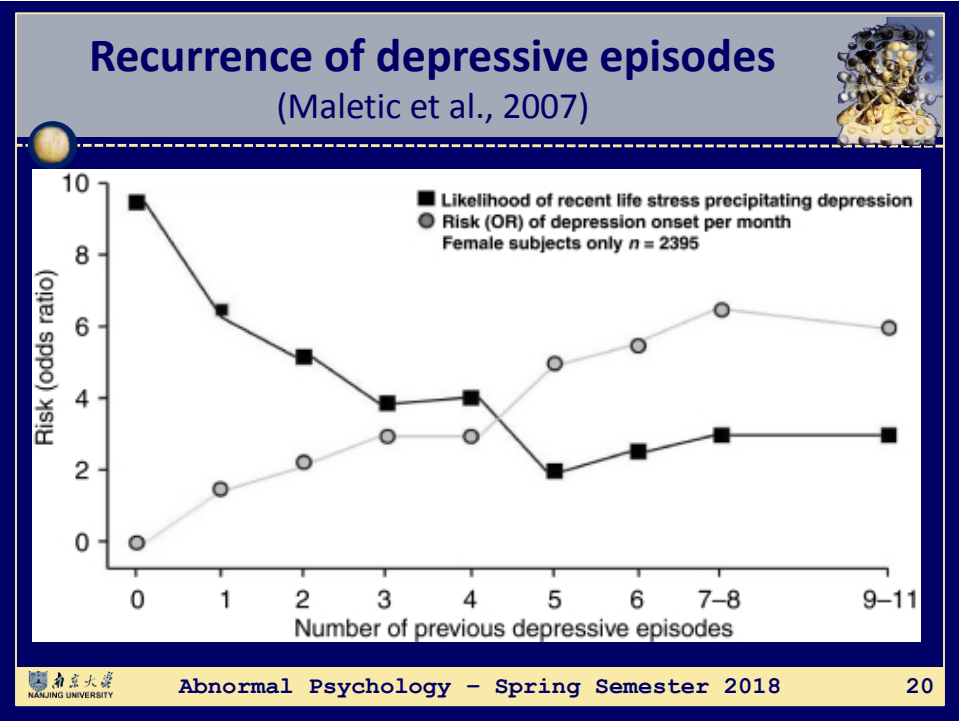
Age at selected age-of-onset percentiles, yr

	5	10	25	50	75	90	95	99
Anxiety disorders								
Panic disorder	—	—	—	—	—	—	—	—
Specific phobia	5	5	5	13	17	36	41	59
Generalized anxiety disorder	18	23	34	44	54	57	58	61
Post-traumatic stress disorder	—	—	—	—	—	—	—	—
Separation anxiety disorder	—	—	—	—	—	—	—	—
Any anxiety disorder ^a	5	5	10	17	36	55	57	60
MDD	18	21	28	43	54	67	68	68
Bipolar I–II disorders	—	—	—	—	—	—	—	—
Any mood disorder	18	21	28	43	53	67	68	68

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Hautzinger's Integrative Model

*Context,
environment*

*(social, material,
etc.)*

*Situation
triggers*

Person's cognitions
unrealistic, biased, negative
structures, biased self-
evaluation

Person's social behavior
behavior deficits, lack of
coping strategies

Possible level of activation
lack of pos/neg reinforcers
and potentially rewarding
events and activities

Depression

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Homework

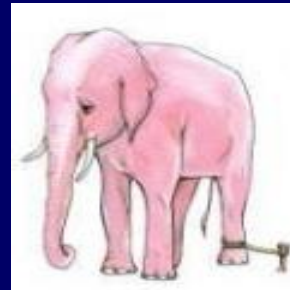
Apply Hautzinger's model to the case example. Follow the following questions:

- 1.) What is the situational context of Mrs. S.?
- 2.) What are events with negative consequences ("punishment") for Mrs. S.?
- 3.) What events could be potential positive/negative reinforcers in Mrs. S.'s life that are missing now?
- 4.) What beliefs might be unrealistic and biased?
- 5.) What do we know about Mrs. S.'s social behavior?

Further etiological explanations (1)



- *Aversive events/stressors*
- *Socio-cultural factors*
 - Low SES
 - Lack of social support system (recursive)
- *Personality factors*
 - Perfectionism
 - Neuroticism
 - Interpersonal dependence
- *Psychological explanations*
 - Learned helplessness
 - Attribution style (Weiner, 1986)
 - **internal** (vs. external) – locus of control
 - **stable** (vs. unstable) – across time periods
 - **global** (vs. specific) – across contexts/situations



Further etiological explanations (2)



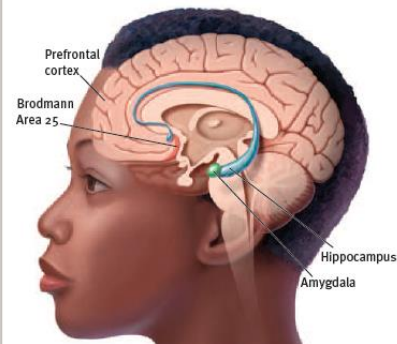
- *Biological factors*
 - Imbalance of multiple transmitters (serotonin, norepinephrine, dopamine, acetylcholine), serotonin as a neuromodulator
 - Hormone imbalance (↑ cortisol, ↑ melatonin)
 - Brain peculiarities: prefrontal cortex, Brodman area 25 (↑ activity or smaller size; „depression switch“?) – **It's a network issue!**
 - Dysregulated immune system
- *Psychodynamic explanations*
 - Loss ⇒ Regression to the oral stage (defence against grief)
 - Too much or too little gratification during childhood
- *Realism-thesis (refuted)*
Depressed people are more realistic people than others.
- *Scar-theories for recurrences*
A depressive episode leaves scars which makes people more sensitive to have depression again.

Biological findings

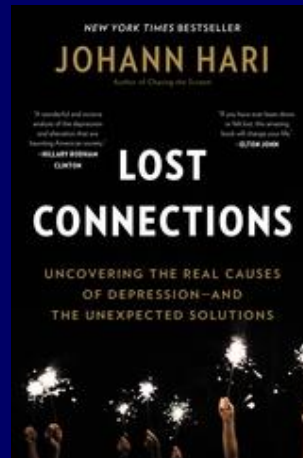
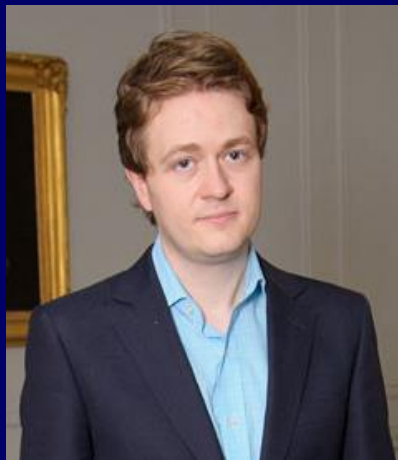
Comer, 2015, p. 225



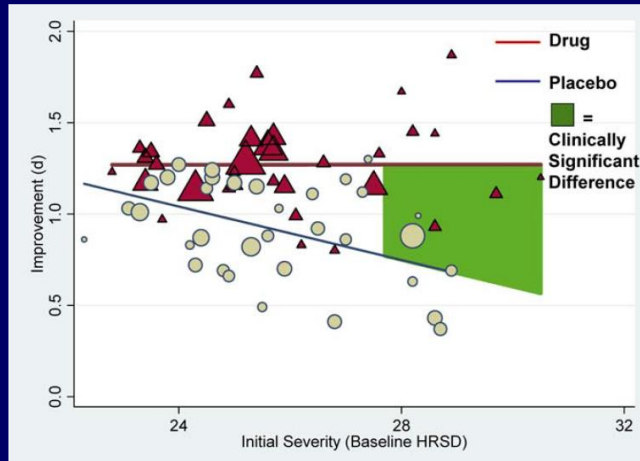
The *prefrontal cortex* is located within the frontal cortex of the brain. Because it receives information from a number of other brain areas, the prefrontal cortex is involved in many important functions, including mood, attention, and immune functioning. Several imaging studies have found lower activity and blood flow in the prefrontal cortex of depressed research participants than in the prefrontal cortex of nondepressed people (Vialou et al., 2014). However, other studies, focusing on select areas of the prefrontal cortex, have found increases in activity during depression (Lemogne et al., 2010; Drevets, 2001, 2000). Correspondingly, research finds that the prefrontal cortex activity of depressed individuals increases after successful treatment by some antidepressant drugs, but decreases after successful treatment by other kinds of antidepressant drugs (Cook & Leuchter, 2001). Given these varied findings, researchers currently believe that the prefrontal cortex plays a critical role in depression but that the specific nature of this role has yet to be clearly defined (Treadway & Pizzagalli, 2014; Goldstein et al., 2011).



Johann Hari



Dysfunction of the brain? Placebo effect of antidepressants



Kirsch et al. (2008) doi:10.1371/journal.pmed.0050045.sd001



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Disconnection from meaningful work



- Whitehall study (Marmot et al. 1991; 10.1016/0140-6736(91)93068-K)
The lower the social status the higher the mortality among civil servants.
<https://unhealthywork.org/classic-studies/the-whitehall-study/>
Key factor: lack of balance between efforts and reward



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Disconnection from people



John Cacioppo (1951-2018)
“Social neuroscience”

Loneliness is contagious, heritable, precedes depression, affects one in four people – and increases the chances of early death by 20%.

Social media cannot compensate us psychologically for what we have lost—social life.



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Disconnection from meaningful values



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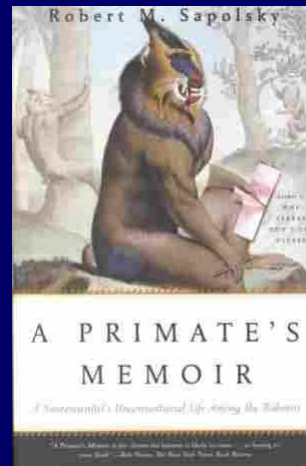
Disconnection from childhood trauma

- Chapman et al. (2004)
[10.1016/j.jad.2003.12.013](https://doi.org/10.1016/j.jad.2003.12.013)

“If you had six categories of traumatic events in your childhood, you were five times more likely to become depressed as an adult than somebody who didn’t have any. If you had seven categories of traumatic event as a child, you were 3100 percent more likely to attempt to commit suicide as an adult.” (Hari, 2018, p. 114)

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Disconnection from status and respect





Disconnection from the natural world



- Alcock et al. (2013), doi:10.1021/es403688w
- http://www.jayhanson.us/_Biology/BiophiliaBeyondToxicity.pdf





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Disconnection from a hopeful and secure future



The Town with No Poverty:
The Health Effects of a
Canadian Guaranteed
Annual Income Field
Experiment (1974-1979)

<http://sociology.uwo.ca/cluster/en/documents/Research%20Briefs/PolicyBrief10.pdf>



"Considerable decrease in hospitalization and physician contact for mental health diagnoses, as well as a decrease in hospitalization for accidents and injuries."




Remedies



- Reconnection with other people (real)
- Meaningful work
- Meaningful values (i.e., less materialism)
Kasser et al., 2013,
doi:10.1007/s11031-013-9371-4
- Overcoming childhood trauma
- Restoring the future
Et al.



What makes us human?

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