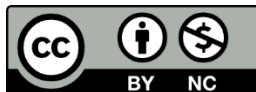
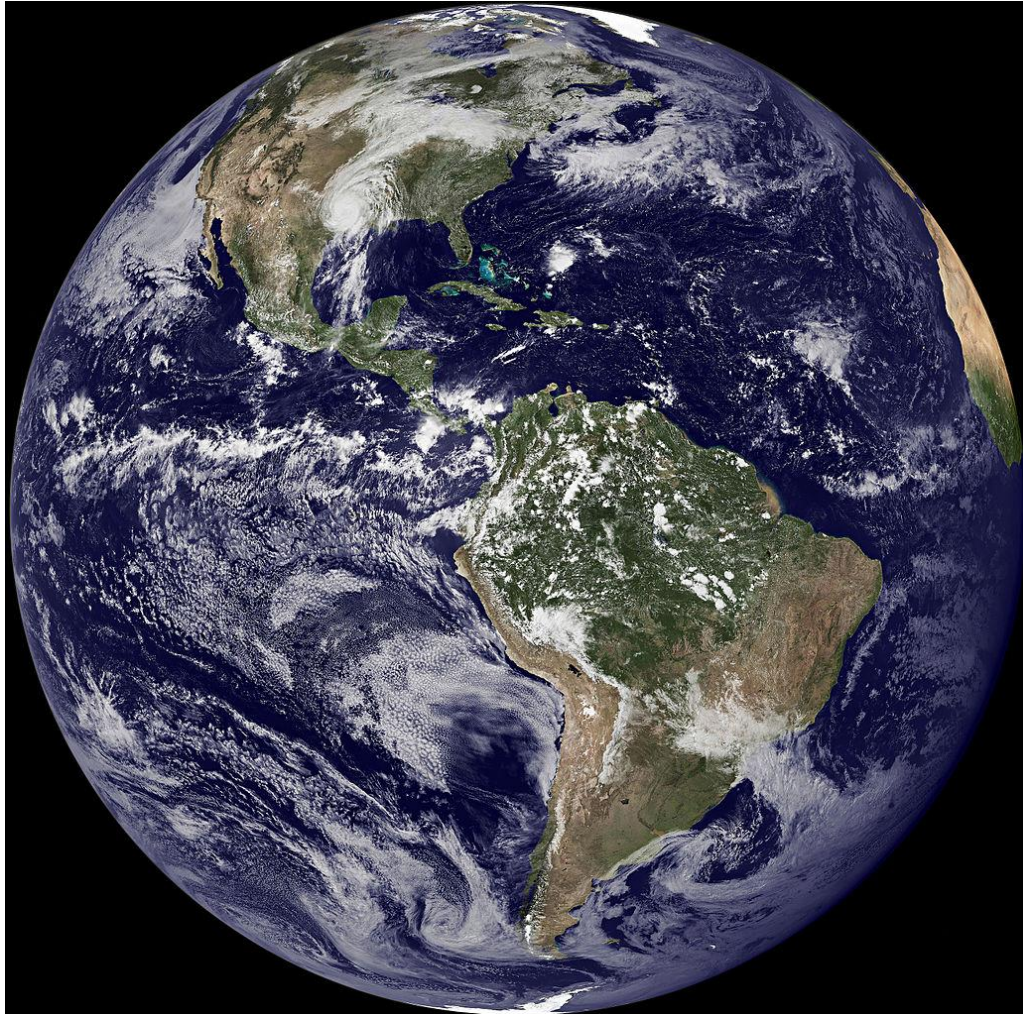


Re-inhabiting the earth in the
Anthropocene recognizing that humans
are not separate from nature but are
part of a living system, i.e. Gaia



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- DEFINITIONS

- Appropriate technology

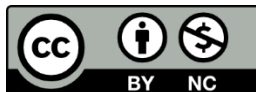
- Appropriate technology is a movement (and its manifestations) encompassing technological choice and application that is small-scale, decentralized, labor-intensive, energy-efficient, environmentally sound, and locally autonomous. Appropriate technology has been used to address issues in a wide range of fields. Well-known examples of appropriate technology applications include: bike- and hand-powered water pumps (and other self-powered equipment), the universal nut sheller, self-contained solar lamps and streetlights, and passive solar building designs.

- “Appropriate technology” *Wikipedia*. Wikipedia.org. n.p. Web. 27 September 2017



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- DEFINITIONS (contd.)
 - Open-source model
 - The open-source model is a decentralized software development model that encourages open collaboration. A main principle of open-source software development is peer production, with products such as source code, blueprints, and documentation freely available to the public. The open-source movement in software began as a response to the limitations of proprietary code. The model is used for projects such as in open source appropriate technology, and open source drug discovery. Open source promotes universal access via an open-source or free license to a product's design or blueprint, and universal redistribution of that design or blueprint.
 - “Open source model” *Wikipedia*. Wikipedia.org. n.p. Web. 27 September 2017



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- DEFINITIONS (contd.)
 - Open source appropriate technology
 - Open source appropriate technology (OSAT) is appropriate technology designed in the same fashion as free and open-source software. OSAT refers to, on the one hand, technology designed with special consideration to the environmental, ethical, cultural, social, political, and economic aspects of the community it is intended for. On the other hand, OSAT is developed in the open and licensed in such a way as to allow their designs to be used, modified and distributed freely.
 - “Open source appropriate technology” *Wordnik*. Wordnik.org. n.p. Web. 27 September 2017



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- DEFINITIONS (contd.)

- Smartphone

- Originating in the 1980s (first referring to a telephone enhanced with computer technology): from smart and phone. First introduced at the 1992 COMDEX computer industry trade show. A smartphone combines a cellphone with e-mail and Web, music and movie player, camera, camcorder, GPS navigation, voice recorder, voice search and hundreds of thousands of mobile applications.



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- DEFINITIONS (contd.)

- Internet of things

- The Internet of things (IoT) is the network of physical devices, vehicles, and other items embedded with electronics, software, sensors, actuators, and network connectivity which enable these objects to collect and exchange data. The IoT allows objects to be sensed or controlled remotely across existing network infrastructure, creating opportunities for more direct integration of the physical world into computer-based systems, and resulting in improved efficiency, accuracy and economic benefit in addition to reduced human intervention. Examples of IoT include smart grids, virtual power plants, smart homes, intelligent transportation and smart cities.

- “Internet of things” *Wordnik*. Wordnik.org. n.p. Web. 27 September 2017



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- DEFINITIONS (contd.)
 - Technology imperative
 - The concept that new technologies are inevitable and essential and that they must be developed and accepted for the good of society. This philosophy is naturally promoted by super geeks in high-tech companies.
 - [technology imperative Definition from PC Magazine Encyclopedia](#)



- DEFINITIONS (contd.)

- Nature deficit disorder

- The Nature deficit disorder is a phrase coined by Richard Louv in his 2005 book *Last Child in the Woods* meaning that human beings, especially children, are spending less time outdoors resulting in a wide range of behavioral problems. This disorder is not recognized in any of the medical manuals for mental disorders...Richard Louv has stated "nature-deficit disorder is not meant to be a medical diagnosis but rather to serve as a description of the human costs of alienation from the natural world"

- “Nature deficit disorder ” *Wordnik*. Wordnik.org. n.p. Web. 27 September 2017

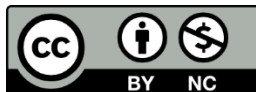


- DEFINITIONS (contd.)

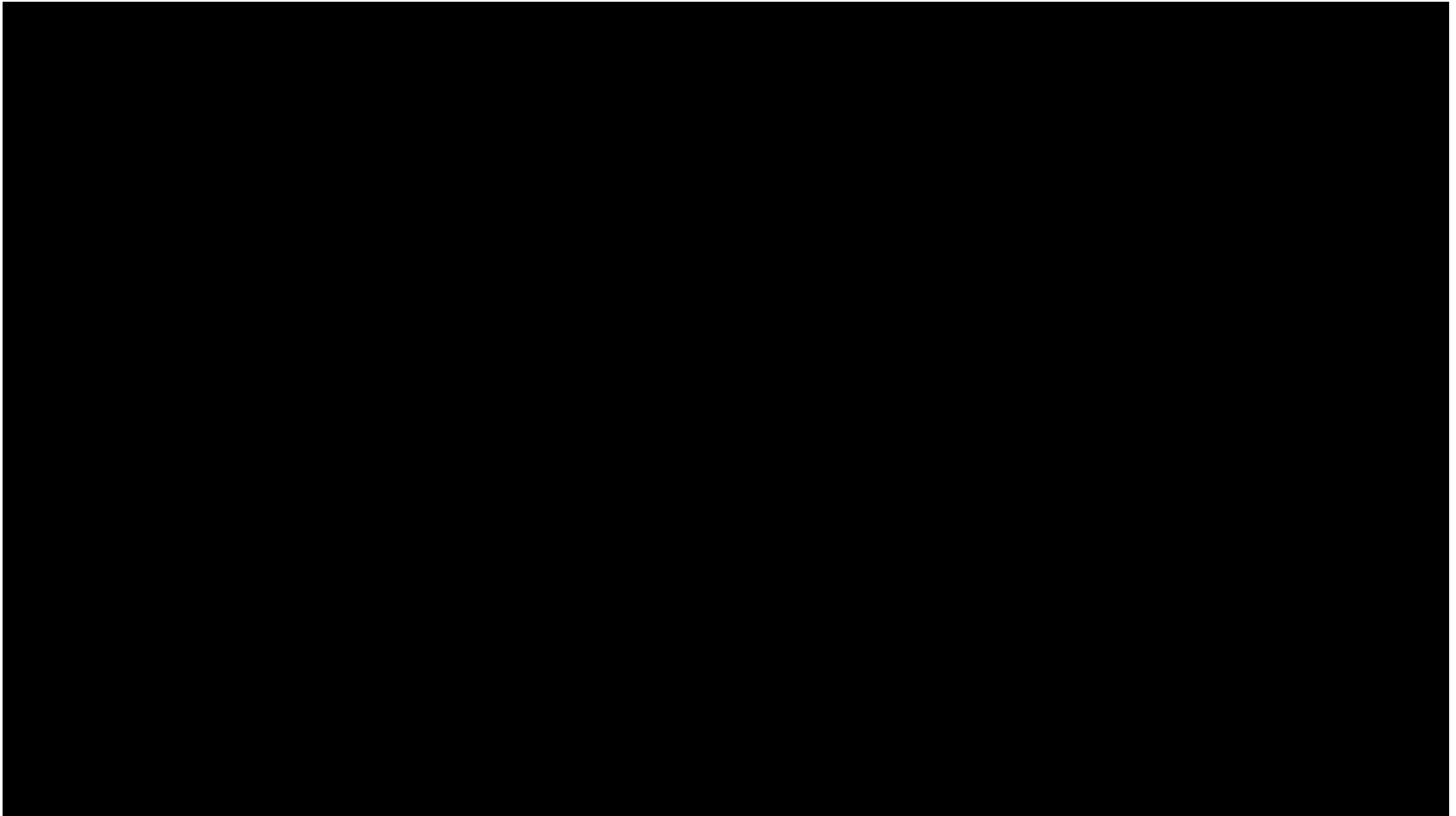
- Biophilia hypothesis

- The biophilia hypothesis suggests that humans possess an innate tendency to seek connections with nature and other forms of life. Edward O. Wilson introduced and popularized the hypothesis in his book, *Biophilia* (1984). Biophilia describes "the connections that human beings subconsciously seek with the rest of life." He proposed the possibility that the deep affiliations humans have with other life forms and nature as a whole are rooted in our biology.

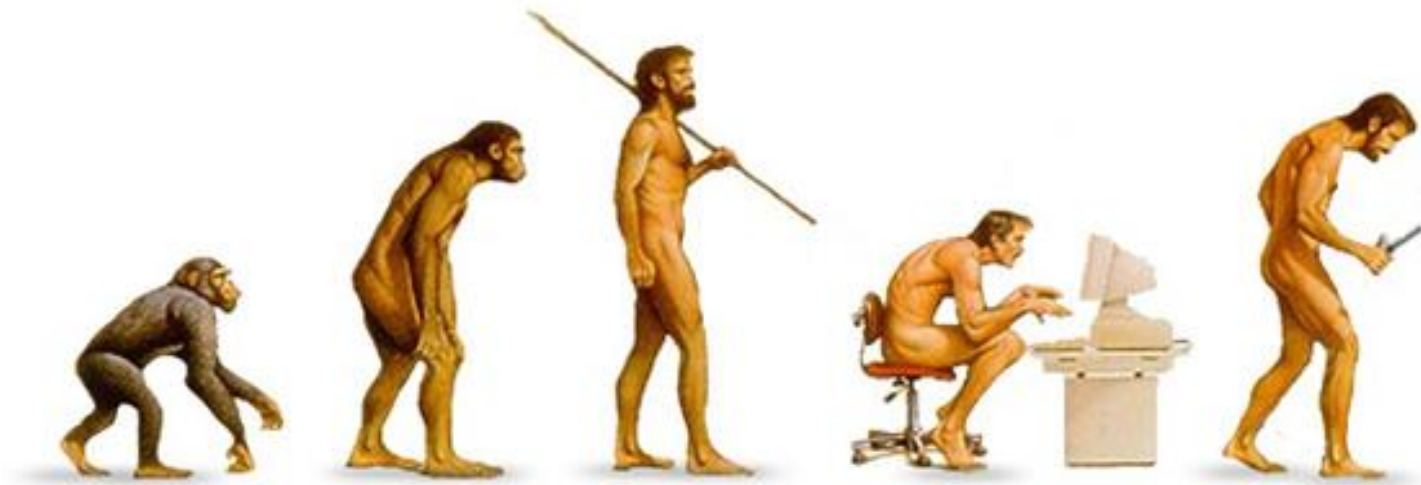
- “Biophilia hypothesis ” *Wordnik*. Wordnik.org. n.p. Web. 27 September 2017



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Smartphone Use



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Smartphone Addiction



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Ecological Human Habitat Design



- Smartphone Obsession Grows with 25% of Millennials Spending More Than 5 Hours Per Day on the Phone
 - According to a [new global study by B2X](#), nearly a quarter of consumers feel frustrated, lost, stressed and sad without their smartphones.



- Smartphone Addiction

- **Digital dependence and compulsive smartphone use is growing, day and night.**
- One quarter of Millennials look at their phone more than 100+ times a day versus less than one tenth of Baby Boomers. And nearly half of Millennials look at their phone more than 50 times a day, three times the rate of Baby Boomers (15.9%). In the United States, a slightly higher 27% of Millennials checked their phone 100+ times a day versus 16% in Germany and 31% in India.
- 25% of Millennials spend more than 5 hours on their smartphone each day and more than 50% spend at least 3 hours compared to a quarter of Baby Boomers. Baby boomers in the US who spend at least 3 hours on their phone are close to the global average, while Baby Boomers in India (42%) and Brazil (49%) are much heavier users.



- Smartphone Addiction (contd.)
 - Consumers are always on call. 85% of global consumers keep their smartphone in direct reach all the time, and more than a quarter keep it on their body all the time, even at night. And they have a need for speed. 57% of smartphone users expect friends and family to respond to messages immediately or at least within a few minutes.



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- Smartphone Addiction (contd.)
 - **Consumers will give up family and friends, even go to prison to not lose their smartphones.**
 - Global smartphone users won't give up their device for one month, even if they were offered a day with their favorite celebrity (74%), a 10% salary increase (56%), an extra week of vacation (50%), \$1,000 dollars (41%) or a holiday at their dream destination (28%).
 - They'd also give up family, friends or sex for a week before their smartphone. Americans were the most likely (11%) to give up their partner or spouse for a month in order to not lose their phone for a year.
 - 4% would even go to prison for a month to not lose their smartphone for a year.
 - Finally, consumers regularly feel frustrated (27%), lost (26%), stressed (19%) and sad (16%) without their smartphones.

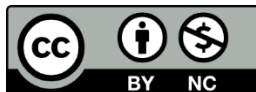


Alone Together by Sherry Turkle



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Sherry Turkle: ¿Conectados pero solos?



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Other technological blunders from which life
as we know it may not recover.



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Climate Change



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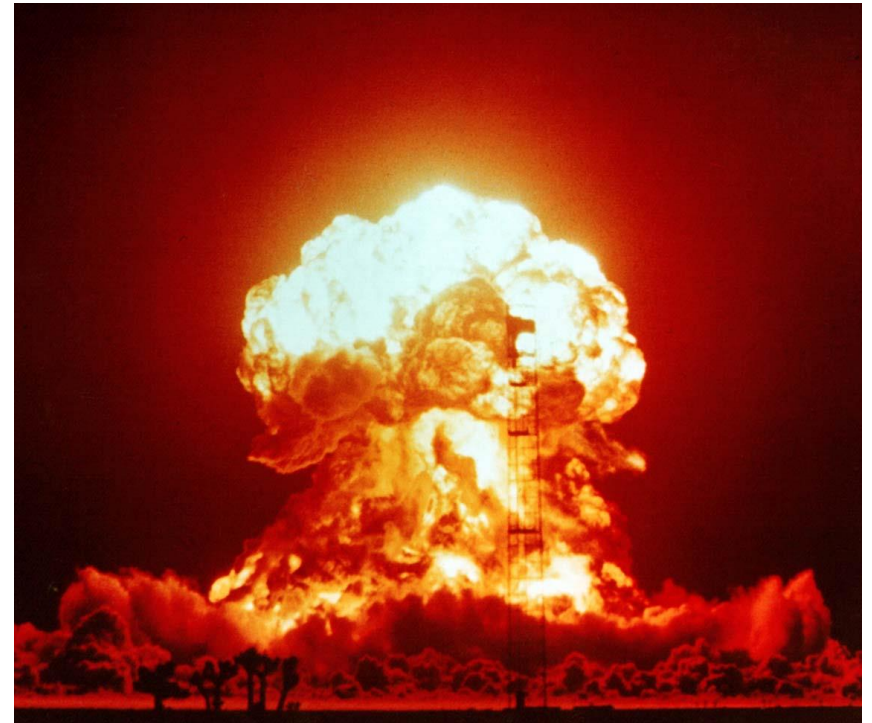
Genetically Modified Organisms



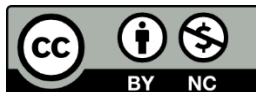
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Ecological Human Habitat Design

Nuclear Energy, Weapons & Waste



Two long-lived fission products: Tc-99 (half-life 220,000 years) and I-129 (half-life 15.7 million years)



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“It has become appallingly obvious that our technology has exceeded our humanity.” – Albert Einstein

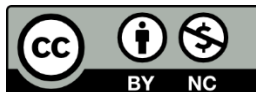
“The real question is not whether machines think but whether men do.” — B.F. Skinner

“It is also rarer to find happiness in a man surrounded by the miracles of technology than among people living in the desert of the jungle and who by the standards set by our society would be considered destitute and out of touch.” – Thor Heyerdahl



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Humans Disconnect From Nature



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- Symptoms of Nature Deficit Disorder (NDD)
 - Children have limited respect for their immediate natural surroundings.
 - Children who do not have contact with nature seem more prone to anxiety, depression and attention-deficit problems.
 - Following the development of ADD and mood disorders, lower grades in school also seem to be related to NDD.
 - Childhood obesity has become a growing problem.



- Horticultural therapy
 - Horticultural therapy (also known as social and therapeutic horticulture or STH) is defined by the American Horticultural Therapy Association (AHTA) as the engagement of a person in gardening and plant-based activities, facilitated by a trained therapist, to achieve specific therapeutic treatment goals. The visual aesthetics of plants are known to elicit feelings of inner peace, which generates positive emotions toward a meaningful appreciation of life. Direct contact with plants guides the individual's focus away from stress enhancing their overall quality of life.



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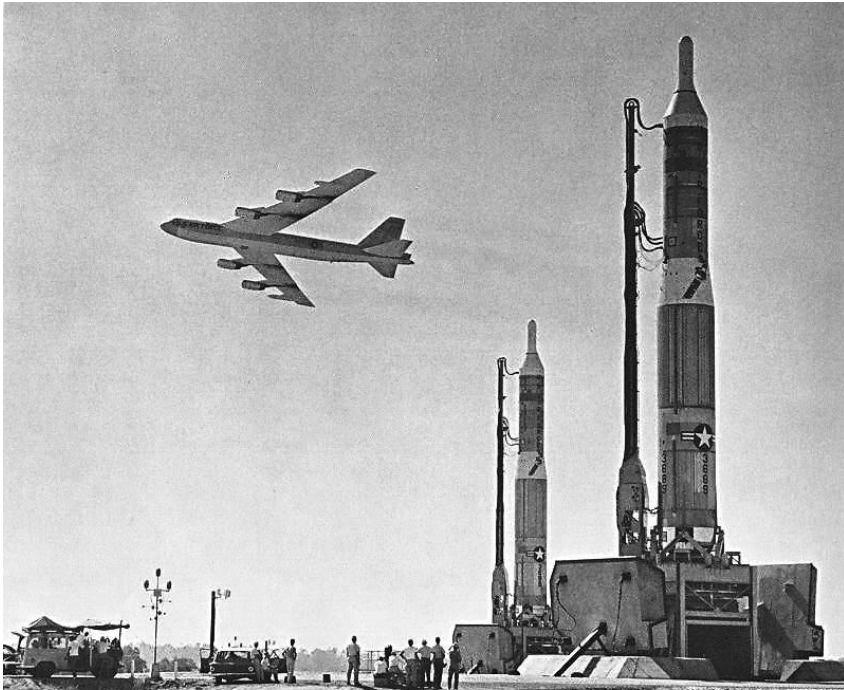
Chaos



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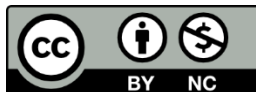


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...or Harmony



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“The Zen Master Thich Nhat Hanh was asked what we need to do to save our world. “What we most need to do,” he replied, “is to hear within us the sound of the earth crying.””



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Questions?



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