



# Of this our friendship made

Stay together friends Don't scatter and sleep, Our friendship is made of being awake!

- Rumi

# an applied developmentalist's



...for thought

### **The Mindful Revolution**



Perils & Promise

# Mindfulness as [Ancient] Innovation

#### an·cient

/ˈānCHənt/

Adjective

"Belonging to the very distant past." (Google, 2013)

#### in·no·va·tion

/ˌinəˈvāSHən/

Nour

"An idea, practice, or object that is perceived as new by an individual or other unit of adoption" (Rogers, 1962)

## Qualities of Accepted Innovations

Rogers (1962) proposed five characteristics of innovations that influence an individual's decision to adopt or reject them.

#### Relative Advantage

How improved is an innovation over the previous generation?

#### Compatibility

How easily can the innovation be assimilated into an individual's life?

#### Simplicity

How simple is the innovation to use?

If the innovation is perceived as complicated or difficult to use, an individual is unlikely to adopt it.

How easily can an individual experiment with the innovation? If an individual is able to test an innovation, s/he will be more likely to adopt it.

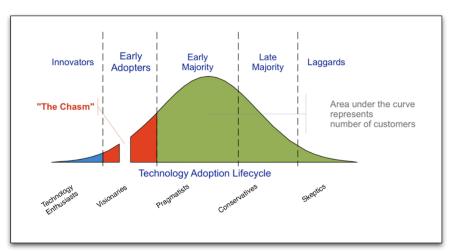
#### Observability

To what extent is an innovation visible to others?

An innovation that is more visible will drive communication among

the individual's social networks and will in turn create more social reactions.

# The Diffusion of Innovations Everett Rogers (1962)



- **Innovators** 2 3 % Technology Enthusiasts: Looking for new technologies, want to be first to try innovations.
- Early Adopters 10% Visionaries: Looking for a breakthrough, to take risks; able to align technology with strategic opportunities.

- Early Majority 36%
  Late Majority 36%
  Late Majority 36%
  Laggards 15%
  Sceptics: Not looking; negative attitude towards technology; identify discrepancies between what's promised vs delivered.

In his book 'Crossing The Chasm,' G.A. Moore (1991) identified a gap, or 'Chasm' between the early adopters and the mainstream market.

Have mindfulness-based interventions crossed the chasm?

# Naming the Shadow in Mindfulness Research

# **Shadow Areas**

• Scientific Shadow:

Confirmation Bias in Published Research Adevelopmental & Mechanistic Metamodel

• Religious Shadow:

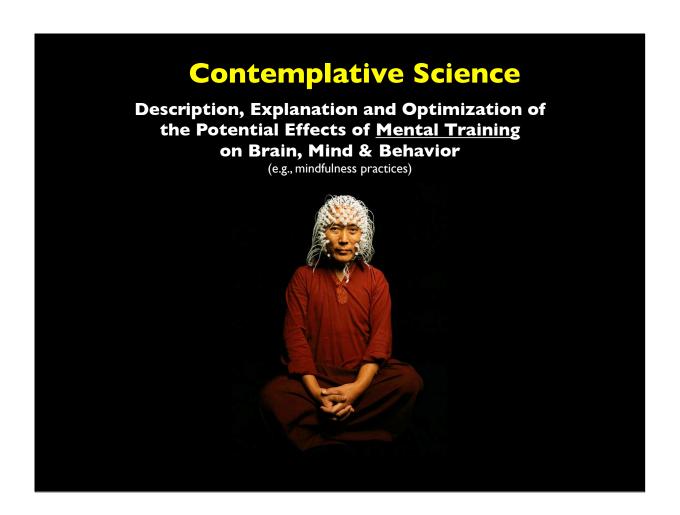
#StealthBuddhism

• Cultural Shadow:

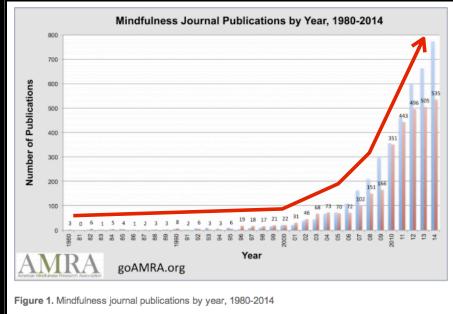
McMindfulness Absence of Cultural Diversity in Work

• Intervention Shadow:

Who is Qualified to Teach?



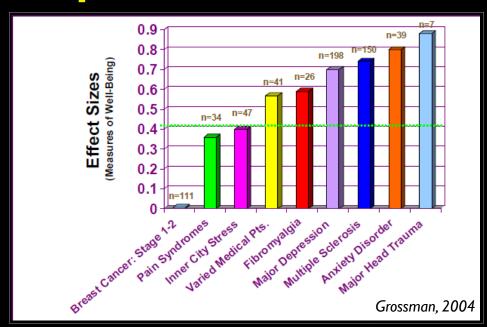
## **Increasing Research on Mindfulness**



Red line – indicates a conservative estimate based on articles reviewed individually for relevance and included in the AMRA database.

Blue line – indicates results from a search of the term "mindfulness" in the ISI Web of Science database.

# Specialization of Field



# Specific Conditions

# "Advancing hard science data"

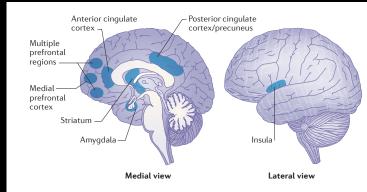


Figure 1 | Brain regions involved in the components of mindfulness meditation. Schematic view of some of the brain regions involved in attention control (the anterior cingulate cortex and the striatum), emotion regulation (multiple prefrontal regions, limbic regions and the striatum) and self-awareness (the insula, medial prefrontal cortex and posterior cingulate cortex and precuneus).

#### **Nine Brain Regions Affected by Meditation Practice**

Fronto-polar Cortex (meta-cognitive-awareness) Sensory Cortices and Insula (somatic awareness)

Hippocampus (memory)
Anterior / Mid-Cingulate and Orbitofrontal Cortices (self- and emotion regulation)

Superior Longitudinal Fasciculus and Corpus Callosum (intra/inter-hemispheric communication)



## **Human Development Perspective**

Developmental Psychology 2015, Vol. 51, No. 1, 1-6 © 2015 American Psychological Association 0012-1649/15/\$12.00 http://dx.doi.org/10.1037/a0038453

#### Mindfulness and Compassion in Human Development: Introduction to the Special Section

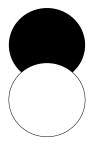
Robert W. Roeser Portland State University Jacquelynne S. Eccles University of California, Irvine

Research on contemplative practices (e.g., mindfulness or compassion training) is growing rapidly in the clinical, health and neuro-sciences, but almost none of this research takes an explicitly developmental life span perspective. At present, we know rather little about the naturalistic development of mindfulness or compassion in children and adolescents, or the processes by which parents can socialize these positive qualities in their offspring. Thus, the goal of this special section is to showcase empirical research articles that redress this absence of a developmental focus in contemplative science by focusing on issues of construct conceptualization and measurement, socialization practices in families, and the role that interventions can play in fostering mindfulness and compassion in children, adolescents, and care-givers alike.

Developmental Psychology (2015)

#### **META-MODELS OF HUMAN DEVELOPMENT**

#### **Dualistic Meta-Model**



Newton, Descartes Machine/Mechanism as Root Image

Nature vs. Nurture
Person vs. Environment
Human vs. Animal
Mind vs. Body
Reason vs. Emotion

**Dialectic Meta-Model\*** 



Einstein, Darwin
Cell/Process as Root Image
Part/Whole Relations (Holons)
Bio-Psycho-Social Transactions
Organism-in-Activity-with-Others
Human as Evolved Mammal
Mind is Embodied
Top-down and Bottom-up

#### "beyond all splits"

(Lerner & Overton, 2008)

# Explaining Human Development via Reciprocal Relationality

(Bronfenbrenner & Morris, 1998)



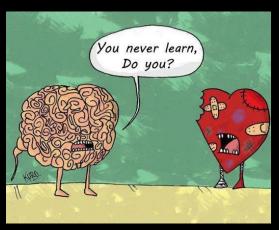
...human development takes place through processes of progressively more complex reciprocal interaction between an active, evolving, biopsychological human organism...

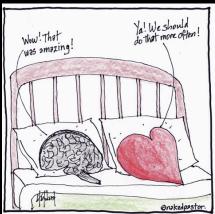
and

the <u>persons</u>, <u>objects and symbols</u> in the immediate external environment"

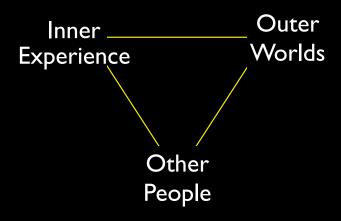
"development is an assisted performance"

# Centrality of Emotion and Body to Cognition, and Relationships Between Brain(s) & Heart(s)





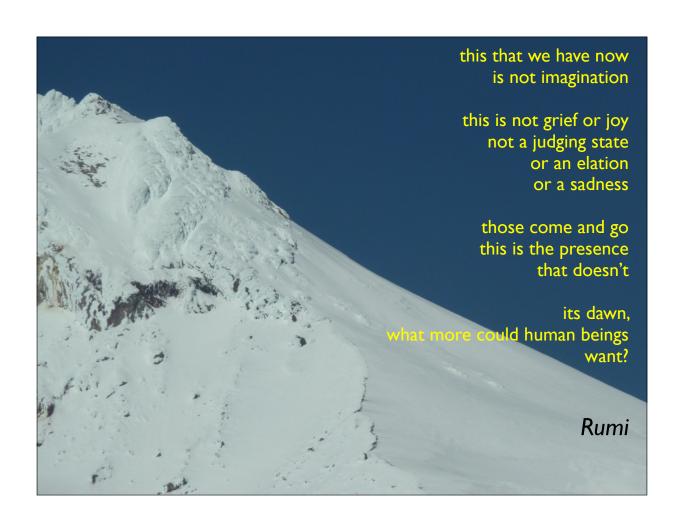
# Mindfulness is relational and involves a "triple focus"



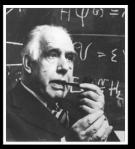
# **Next Generation**

- Focusing Cultural Diversity
- Individual Differences in Uptake
- Addressing Social Systems
- Do No Harm!
- The real world is messy place for research, and we learn the most in that real place!

# What is mindfulness?



# Native Mindfulness Being Present https://www.youtube.com/watch?v=NUI6tUCtY28

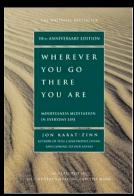


Niels Bohr

The opposite of a true statement is a false statement,

but the opposite of a profound truth can be another profound truth.

# What is mindfulness?

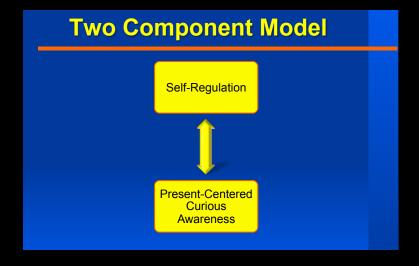




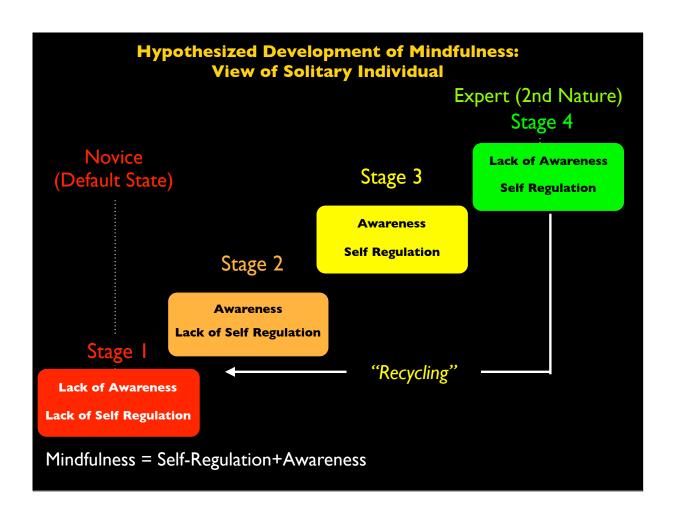
Simple, but not easy.

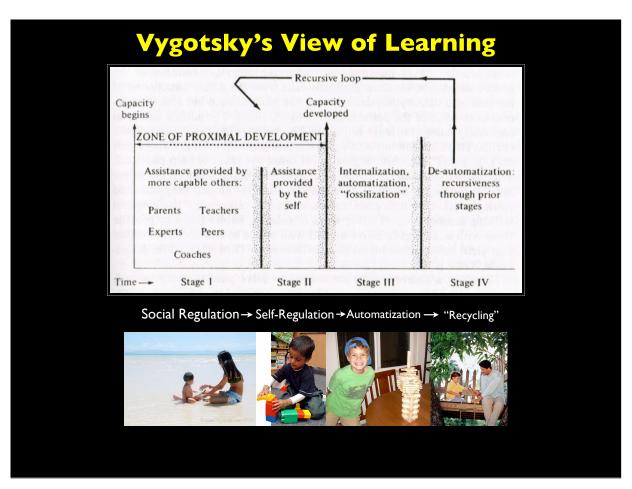
# How does mindfulness develop?

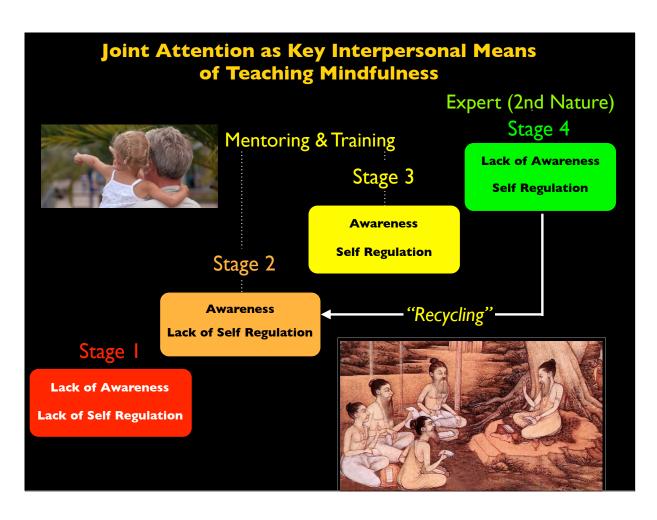
# **Mindfulness Defined**



(Bishop et al., 2004)









## Secret hidden in plain sight

We teach who we are.

Who is the teacher?





Parker Palmer



Peering into the black box of MBIs and acknowledging the teacher, teaching, and the teacher-student relationship as central

# **Summary: Its about transforming relationships**

Mindfulness \*may\* be conceived of as a way of relating to the "generalized other" - including our phenomenological experience of self, others, and the designed and natural worlds.

This way of relating is kind, spacious, and patient, and therefore full of possibility for new patterns of response to emerge in time and space from our interactions with the inner, the outer, and others.



Stay together friends Don't scatter and sleep, Our friendship is made of being awake! - Rumi