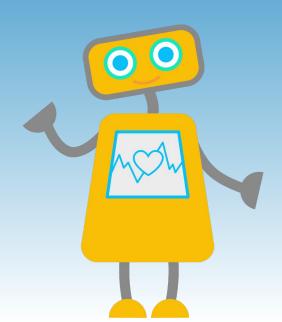
Woebot

The fully automated CBT coach



Alison Darcy, PhD CEO & Founder

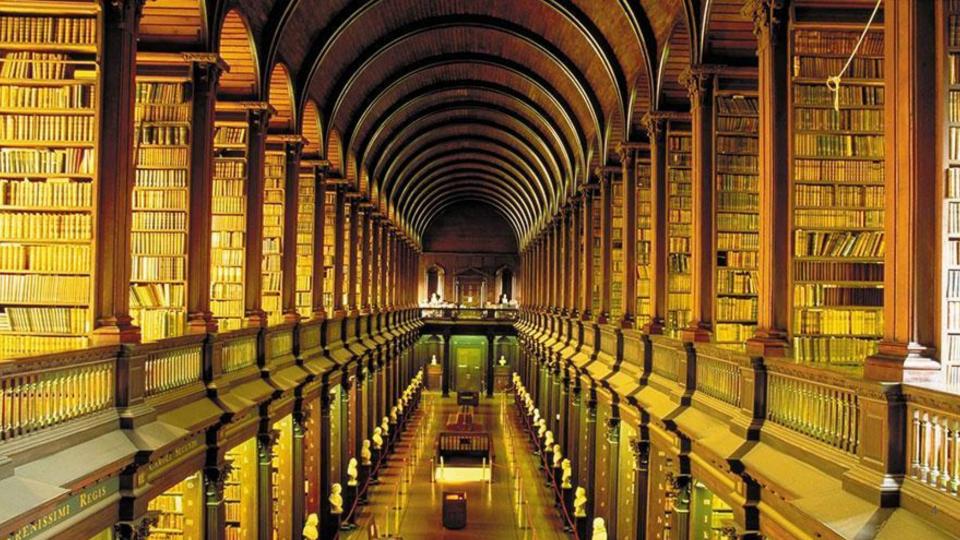
@alisonmdarcy

Woebot Labs Inc.
October 9th 2018



How did I end up here?

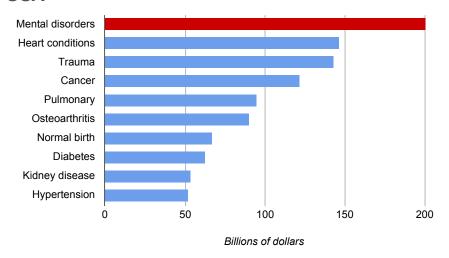




The problem we're trying to solve

An epidemic of mental illness

Mental disorders are the #1 most expensive illness in the USA



Source: Roehrig C. Mental Disorders Top The List Of The Most Costly Conditions In The United, States: \$201 Billion, Health Affairs 35, no.6 (2016):1130-1135

\$201B Total Cost (US)

58%Do not receive care

A global crisis



A global crisis



CBT is a great approach but implementation is problematic

50% of doctoral-level therapists are not using evidence-based therapeutic approaches in practice*

*even when they think they are.

Source: Becker, C. B., Zayfert, C., & Anderson, E. (2004). A survey of psychologists' attitudes towards and utilization of exposure therapy for PTSD. Beh Res Ther, 42, 277–292. Waller, G. (2009). Evidence-based treatment and therapist drift. Beh Res Ther, 47, 119; Tobin, D. L., Banker, J. D., Weisberg, L., & Bowers, W. (2007). I know what you did last summer (and it was not CBT): A factor analytic model of international psychotherapeutic practice in the eating disorders. Int J Eat Dis, 40, 754 –757. doi:10.1002/ eat.20426

Our Mission:

To democratize access to high quality mental health tools



Woebot is a new paradigm in digital mental health



Non-human

Many people would rather talk to an Al*



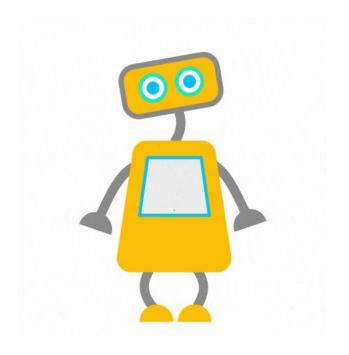
Personalized

Scale allows for the ability to enhance treatment through understanding treatment mechanism

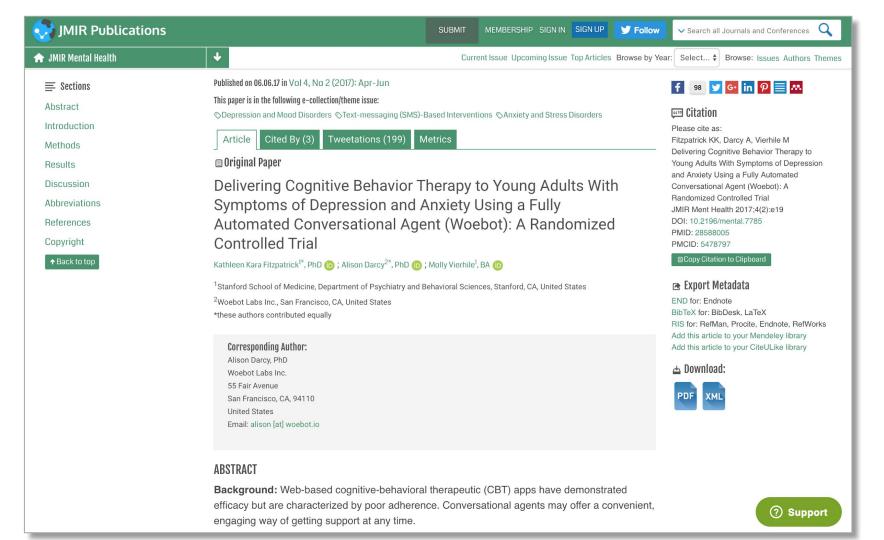


Integrated in everyday life

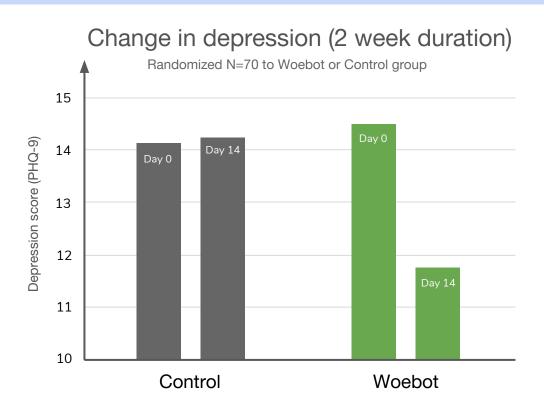
Data gathering is crucial to success of CBT. Learning is distributed, intervention is in-vivo

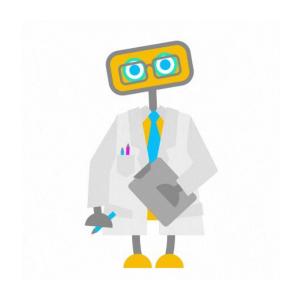


Source: LucasGM, Gratch J, King A, Morency L-P. It's only a computer: virtual humans increase willingness to disclose. Comput Human Behav. 2014;37:94-100.



Study revealed symptom reduction in 2 weeks





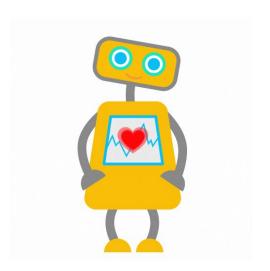
Source: Fitzpatrick, K.K, Darcy, A.M., Vierhile, M. Delivering Cognitive Behavior Therapy to Young Adults With Symptoms of Depression and Anxiety Using a Fully Automated Conversational Agent (Woebot): A Randomized Controlled Trial" JMIR Ment Health 2017 (Jun 06); 4(2):e19

The study suggested Woebot might be a relational technology

"I love Woebot so much. I hope we can be friends forever! I actually feel super good and happy when I see that it 'remembered' to check in with me!"

Carolyn, 22

Woebot is a relational app capable of forming a personal bond with users



Proprietary graph based on unpublished data removed

"Woebot feels more like a **friend** than an app"

The core AI technology means Woebot is constantly learning

Clinical expertise **Expert clinicians build** tailoring algorithms allowing Woebot to respond across problems and approaches Woebot's clinical brain Great user experience As more people talk to Woebot, the

smarter he gets

Artificial intelligence expertise

Woebot strives for authentic conversations with users, Natural Language Processing is always improving

Woebots beliefs

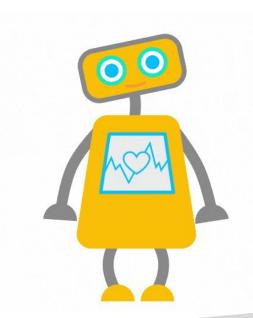
Humans are dynamic and interesting.

Empowerment through active enquiry over passive data collection.

Distorted thinking is part of being human.

Agnostic to diagnosis.

Growth mindset.



Woebots beliefs

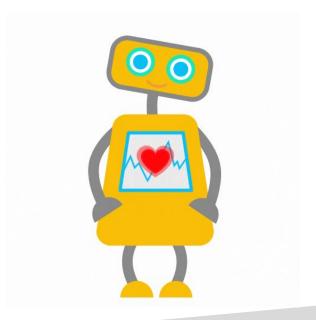
Sitting with open hands.

CBT can be useful for everyone but isn't always sufficient.

In-vivo learning is favorable.

Humor can be useful.

Guided self-care



Thank you!

@alisonmdarcy

