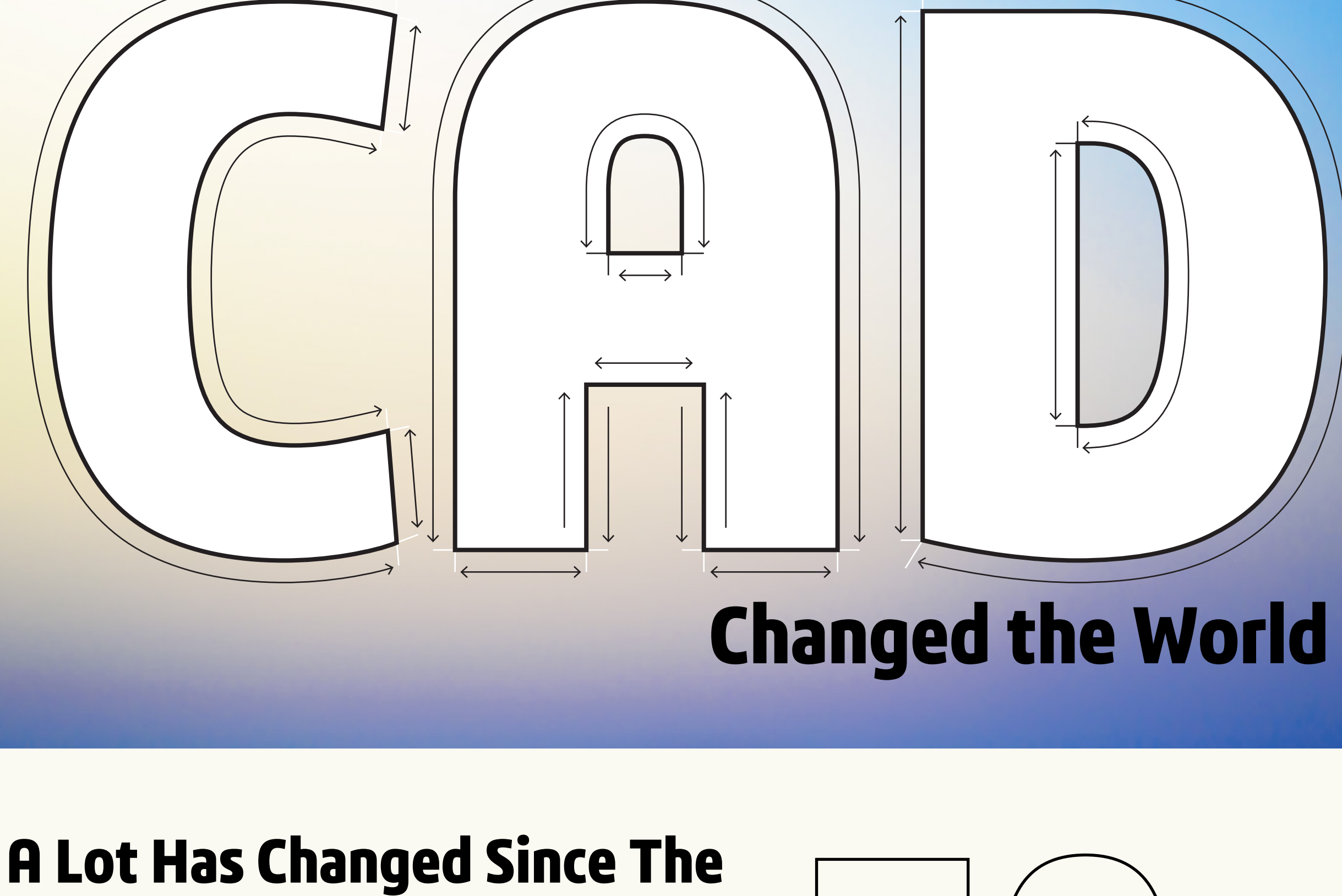


The Origin of Everything:

HOW



Changed the World

A Lot Has Changed Since The Early Days Of Blueprinting

Anatomy of a Designer

70s

WORKSPACE
DRAFTING TABLE

WIDTH
150 CM - 59.1 IN

DEPTH
70 CM - 27.6 IN

DESK HEIGHT
115 CM - 230 CM
45.3 IN - 90.6 IN

WORK HEIGHT
103 CM - 137 CM
40.6 IN - 53.9 IN

SIZES OF TABLES RANGE FROM:

61 CM X 91.4 CM	24 IN X 36 IN
76.2 CM X 91.4 CM	30 IN X 36 IN
76.2 CM X 106.7 CM	30 IN X 42 IN
95.3 CM X 121.9 CM	37.5 IN X 48 IN
95.3 CM X 152.4 CM	37.5 IN X 60 IN
95.3 CM X 182.9 CM	37.5 IN X 72 IN

DRAWING TOOLS

DRAWING PENS

SCALE RULER

FRENCH CURVES

TEMPLATES

MFR SCHMIDT + HRENSCH

ITEM ISIS DRAFTING MACHINE

DATE 08/01/1955

ORG GERMANY

The Dawn of Digitized Design

CAD Software Transformed Design From The Inside Out

80s

WORKSPACE
UNIX SYSTEM

ORIGINAL LIST PRICE
\$100,000+

MFR CALMA

ITEM DIMENSION III SYSTEMS

DATE 1982

ORG UNITED STATES

O/S CDOS (CALMA REAL-DISK OPERATING SYSTEM)

DRAWING TOOLS

STYLUS

KEYBOARD

CAD SOFTWARE
PADL-2 software

\$600 for educational institutions to \$20,000 for commercial concerns to \$50,000 for commercial use

AVERAGE PRICE PER SEAT
\$50,000

MFR CALMA

ITEM DIMENSION III SYSTEMS

DATE 1982

ORG UNITED STATES

O/S CDOS (CALMA REAL-DISK OPERATING SYSTEM)

The Adoption of Computer Aided Design

90s

WORKSPACE
**AN OFFICE-STYLE DESK
A PRINTER**

Original List Price
\$138,000

MFR Silicon Graphics Inc.

ITEM Indigo2 IMPACT R10000

DATE 01/01/1996

ORG UNITED STATES

O/S IRIX 6.2 IREX 6.5.22

DRAWING TOOLS

MOUSE

KEYBOARD

CAD SOFTWARE
PTC Pro/ENGINEER

Rule-based constraint (sometimes called "parametric" or "variational") 3D CAD modeling system

AVERAGE PRICE PER SEAT
\$14,000 - \$20,000

MFR Silicon Graphics Inc.

ITEM Indigo2 IMPACT R10000

DATE 01/01/1996

ORG UNITED STATES

O/S IRIX 6.2 IREX 6.5.22

SOLIDWORKS

SOLIDWORKS brought 3D design to every designer's desktop

Bringing CAD software to Windows machines was much cheaper than dedicated CAD workstations

\$250,000 Silicon Graphics Onyx RealityEngine²

\$18,000 IBM 5110 computer

\$14,000 Silicon Graphics Indigo 2 R5000SC

\$2,500 Emerald Green Acer Aspire

CAD SOFTWARE
SOLIDWORKS 95

AVERAGE PRICE PER SEAT
\$4,000

SOLIDWORKS CAD software also made design more accessible to users

- Intuitive software took months to master versus years
- Did not require specialized hardware
- Personal computers vs massive UNIX systems

U-Boat Worx
NEMO Submersible Submarine

LENGTH: 280 CM - 110 IN
WIDTH: 231 CM - 92 IN
HEIGHT: 155 CM - 61 IN

Today we can use CAD to make almost anything

THE BIG INDUSTRIAL EQUIPMENT SUBMARINES AIRPLANES

LENGTH: 591 CM - 233 IN
WIDTH: 208 CM - 82 IN
HEIGHT: 193 CM - 76 IN

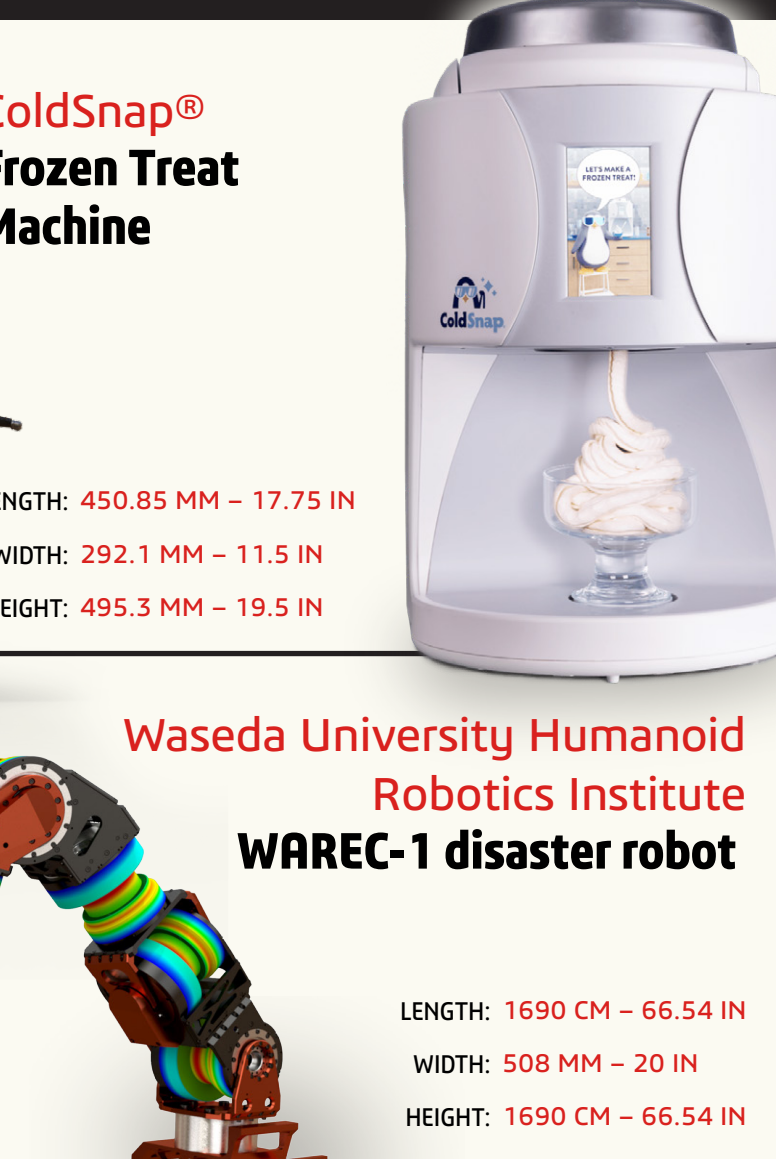
THE SMALL ICE CREAM MACHINES DUMBBELLS MICROROBOTS



Endiatx PillBot™

LENGTH: 30 MM - 1.18 IN
WIDTH: 13 MM - 0.51 IN
HEIGHT: 13 MM - 0.51 IN

AND THE UNIQUE RING DOORBELL CAMERA BOSTON DYNAMICS ROBOTS HUMANIOD ROBOTICS



Waseda University Humanoid Robotics Institute WAREC-1 disaster robot

LENGTH: 1690 CM - 66.54 IN
WIDTH: 508 MM - 20 IN
HEIGHT: 1690 CM - 66.54 IN

Approximate size

CAD is not just software, it's a community

CONFERENCE SPEAKERS HAVE INCLUDED:

MythBusters
Science Entertainment Experts

Marc Raibert
Founder of Boston Dynamics

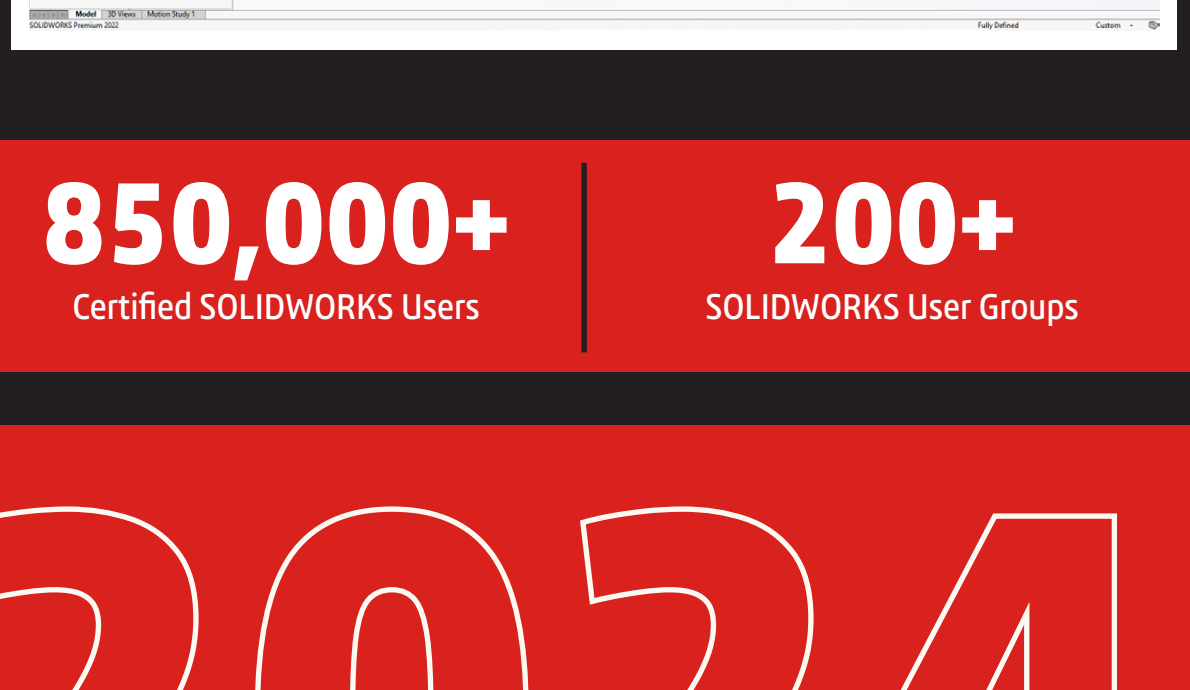
Jamie Siminoff
Entrepreneur and CEO of Ring

SolidWorks User Conference & Exposition Palm Springs, CA February 2-6, 1995

SolidWorks World

3DEXPERIENCE WORLD

Since 1995, a passionate group of designers, engineers, students, makers, and executives has gathered to learn, network, and celebrate SOLIDWORKS and its community. The annual event has evolved over the years to become a key industry touchpoint for 3D CAD and all aspects of product development



SOLIDWORKS Users
International Community

8 million+
SOLIDWORKS Users

850,000+
Certified SOLIDWORKS Users

200+
SOLIDWORKS User Groups

Designing the Future:

The Golden Age of Design

2024

WORKSPACE
A COMPUTER DESK, COUCH, TABLE, COFFEE SHOP, ETC

MFR Microsoft

ITEM Surface Laptop Studio 2

DATE 10/03/2023

ORG CHINA

O/S WINDOWS 10/11 PRO

DRAWING TOOLS

MOUSE

SURFACE PEN

SOLIDWORKS

SOLIDWORKS SUBSCRIPTION

NO LONGER JUST FOR:

- INDUSTRIAL DESIGNERS
- MECHANICAL ENGINEERS

BUT NOW FOR:

- ACADEMICS
- ENTREPRENEURS
- CHILDREN
- DIY ENTHUSIASTS

1998 **ACADEMICS**

SOLIDWORKS 98 Plus

2015 **ENTREPRENEURS**

SOLIDWORKS for Startups

2016 **CHILDREN**

SOLIDWORKS Apps for Kids

2021 **DIY ENTHUSIASTS**

SOLIDWORKS for Makers

With creators contributing to the community every day

SolidWorks With Aryan Fallahi
@with-Aryan

JerryRigEverything
Zack Nelson
@jerryRigEverything

Hacksmith Industries
James Hobson
@Hacksmith

Praveen Singh (Solidworks Fun)
@SolidWorksFunPraveenSingh

SolidWorks Tutorials with Raihan
@SolidWorksTutorialsWithRaihan

But The New Age of CAD Software Is Just Beginning

The Yesterday, Today, and Tomorrow of CAD

2025+

WORKSPACE
TO BE DETERMINED

AI TOOLS

SOLIDWORKS

DESIGN ASSISTANT

Predictive AI Assistance Based On Your Workflow

Design Assistant Selection Helper

Design Assistant Mate Helper

Design Assistant Sketch Helper

Design Assistant Smart Mate

SOLIDWORKS

AURA AI

'Virtual Companion'

Generative Artificial Intelligence and Large Language Model

Learns From User Behavior

Provides Intelligent Suggestions

Summarizes Company Know-How

MFR Microsoft

ITEM Surface Laptop Studio 2

DATE 10/03/2023

ORG CHINA

O/S WINDOWS 10/11 PRO

NO LONGER JUST FOR:

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2016 **CHILDREN**

SOLIDWORKS Apps for Kids

2021 **DIY ENTHUSIASTS**

SOLIDWORKS for Makers

Here's to the next 30 years of CAD software

SOLIDWORKS

SOLIDWORKS.COM

SOURCES: novedge.com/blogs/design-news/design-software-history-pro-engineer-pioneering-parametric-modeling-and-transforming-the-cad-landscape

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