



OFFICE OF
Educational Technology

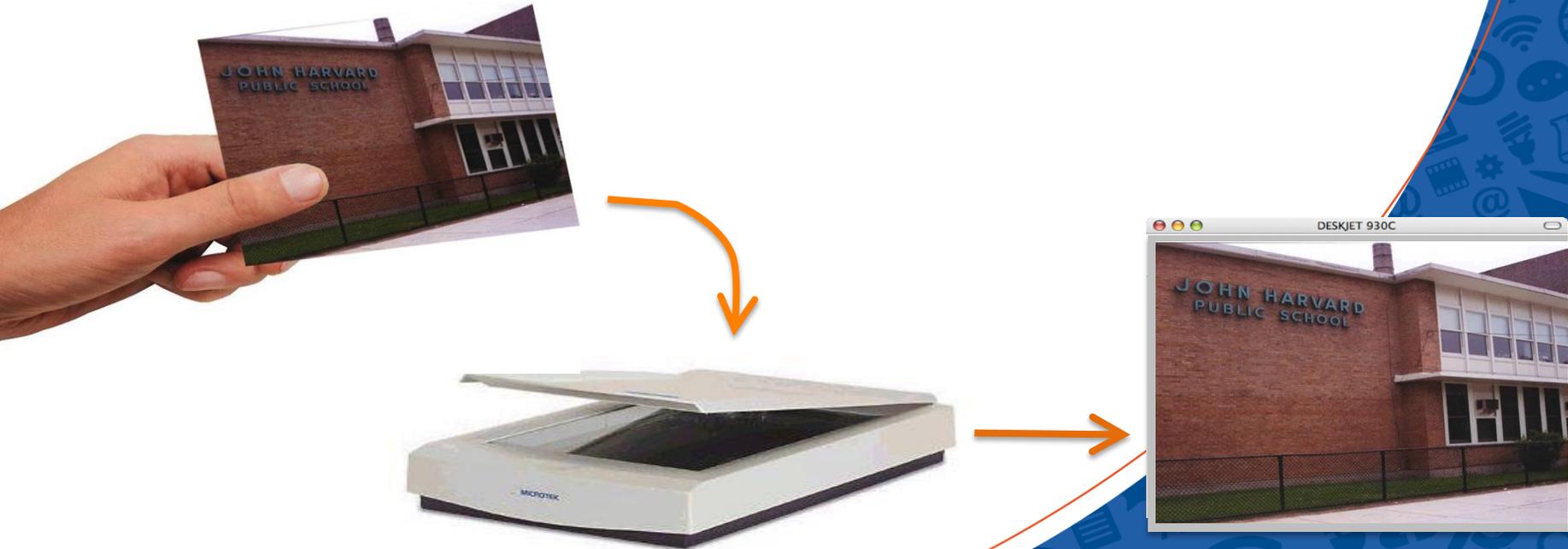
Transforming Learning with the Power of Technology

Joseph South, Deputy Director

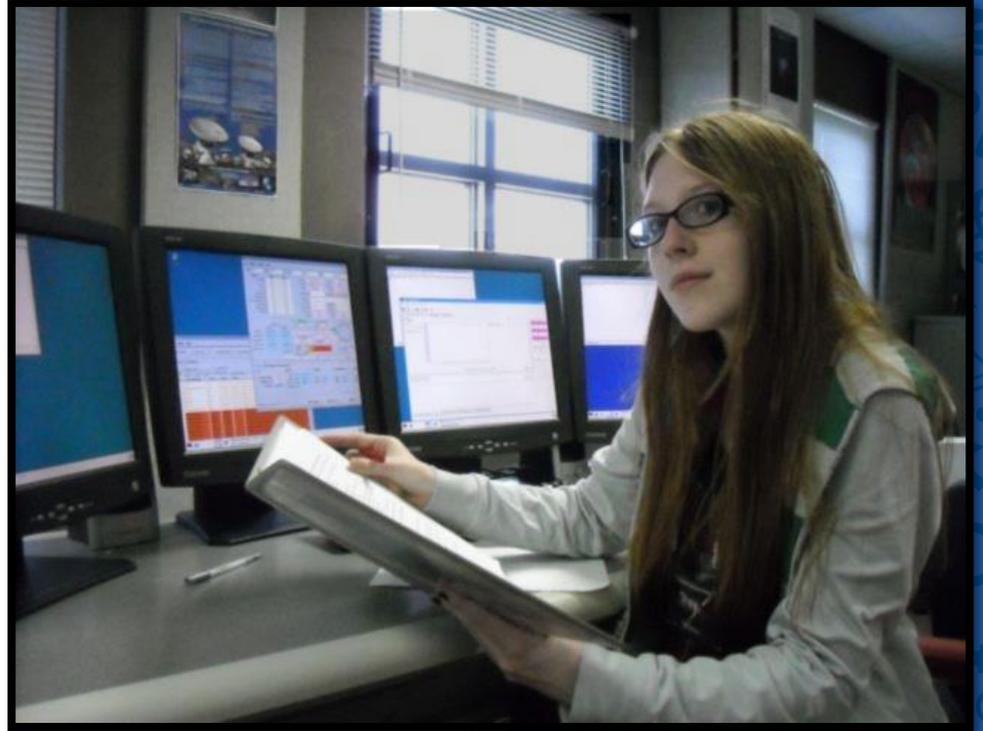
Office of Educational Technology • US Department of Education

 @southjoseph

If we simply digitize traditional practices,
and do not change how we teach & learn,
we have failed.



This
high school
student
discovered
a new star



This girl
was given a
customized,
3D printed
prosthetic hand
for free



The hand was
designed &
3D printed
by these
13 year-old
students at
their school

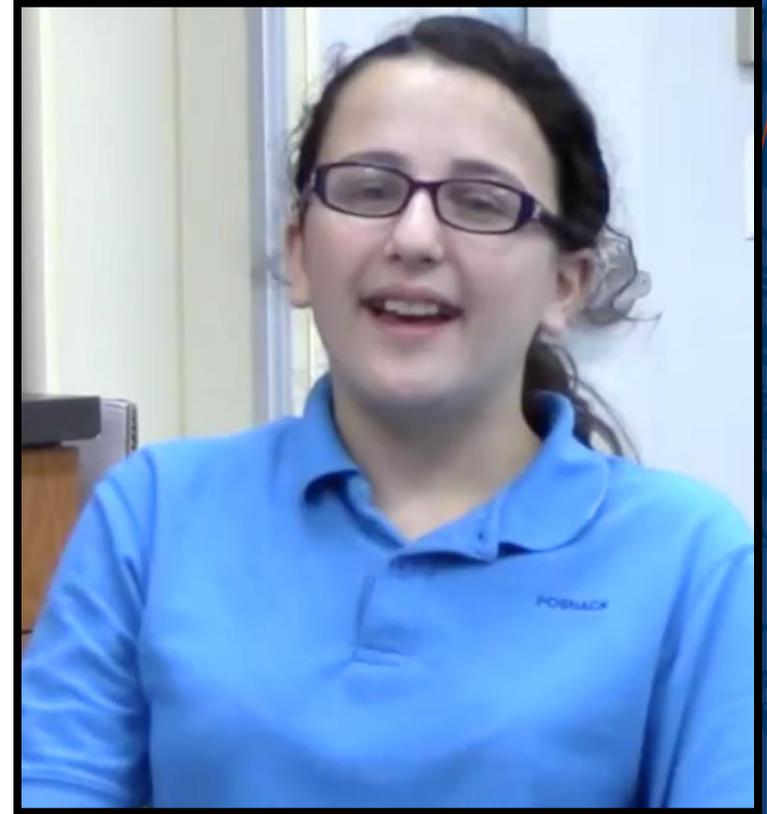


This boy had cancer
and had to live
in a hospital
far away
from his school
and friends
for treatment



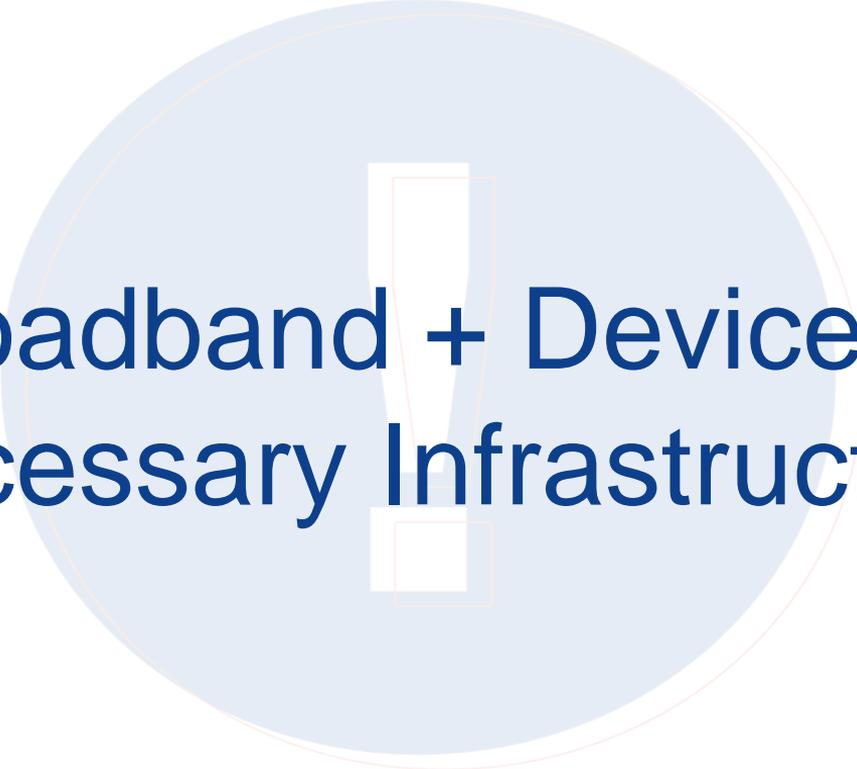
His classmate
didn't want him
to miss a year
of school.

She thought
of an innovative
solution.



The boy
attends school
remotely
via a live
video feed
from a robot





**Broadband + Devices =
Necessary Infrastructure**



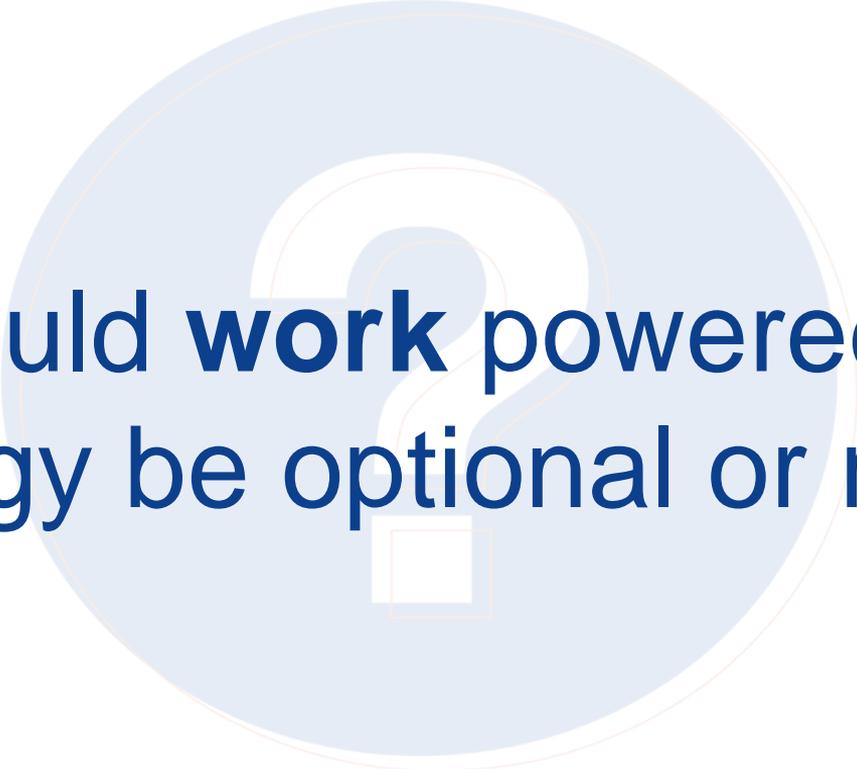
**Broadband + Devices +
Learning + Leadership =
School Transformation**



Should learning powered by
technology be optional or
required?



Should **learning** powered by
technology be optional or
required?



Should **work** powered by
technology be optional or required?

Connecting Schools a Top Priority



“In a country where we expect free wi-fi with our coffee, we should definitely demand it in our schools”

~ President Obama

ConnectED Goals: In 5 years...

- Broadband to 99% of classrooms
- Affordable, interactive devices
- Professional development for teachers & leaders
- High quality digital content



Crowdsourced School Speed Test



Education
SUPERHIGHWAY

Is your school's Internet access fast enough for digital learning?

Join thousands of colleagues across the nation to find out by taking the school speed test. In less than a minute you'll know the speed of your school's Internet access and the types of digital learning it can support.

TEST MY SCHOOL

School ZIP Code **OR** School City State

Find Schools

Test your school in four easy steps:

1. Enter the ZIP code or city & state your school is in and press Find Schools
2. Select your school by typing the first few letters of your school name. If you don't see your school in the list, check to be sure you entered the correct location information or press New School to enter the name of your school.
3. Confirm that you are at school and connected to your school's network so we know you are testing the speed of your school's Internet access.
4. Select your role, enter your e-mail address (optional) and press Start Test.

In less than a minute you'll know the speed of your school's Internet access!

Crowdsourced School Speed Test



The screenshot shows the SchoolSpeedTest.org website. At the top left is the logo for SchoolSpeedTest.org, which features a clock and three people at computers. To the right is the Education SUPERHIGHWAY logo, featuring two people holding a tablet. Below the logos is the heading "Is your school's Internet access fast enough for digital learning?" followed by a sub-heading "Join thousands of colleagues across the nation to find out by taking the school speed test. In less than a minute you'll know the speed of your school's Internet access and the types of digital learning it can support." Below this is a search form with fields for "School ZIP Code", "OR School City", and "State", and a "Find Schools" button. Underneath the form is a list of four steps to test the school's Internet access, and a final statement: "In less than a minute you'll know the speed of your school's Internet access!"

SchoolSpeedTest.org

Education SUPERHIGHWAY

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Only 30% of schools had adequate bandwidth

Federal Communications Commission Modernized E-Rate Program

- Program hadn't been updated in 20 years
- Phased out subsidies for pagers and phone service
- Prioritized wi-fi funding for schools and libraries
- Increase the annual spending cap from \$2.4B to \$4.9B

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**Anticipate that 70,000 schools
will reach bandwidth goal in next two years**

Private Sector Got Involved



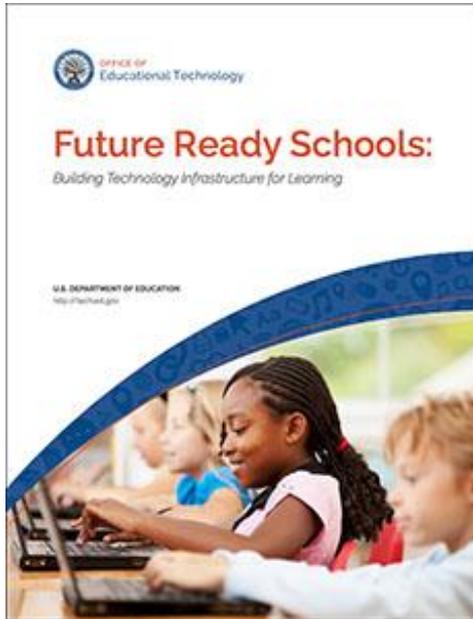
tech.ed.gov/connectED

U.S. Department of Education notified states & school districts of federal funding for ed tech

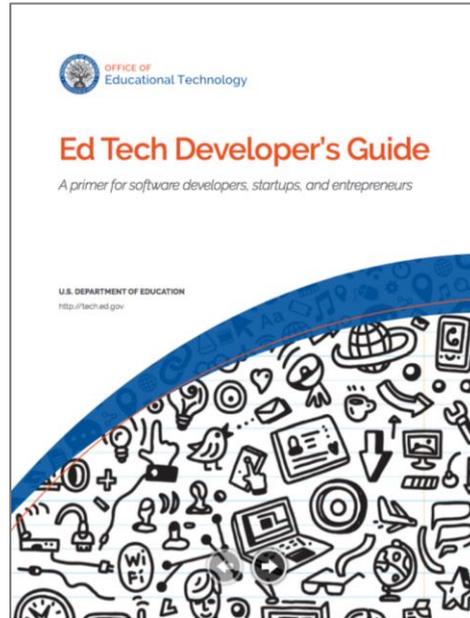
- People thought you could not use federal funding
- Examples: You can use federal funds for
 - Helping teachers learn new technologies
 - Purchasing software to help English language learners
 - Helping low income schools transition to technology enabled school-wide personalized learning models

Provided New Guidance

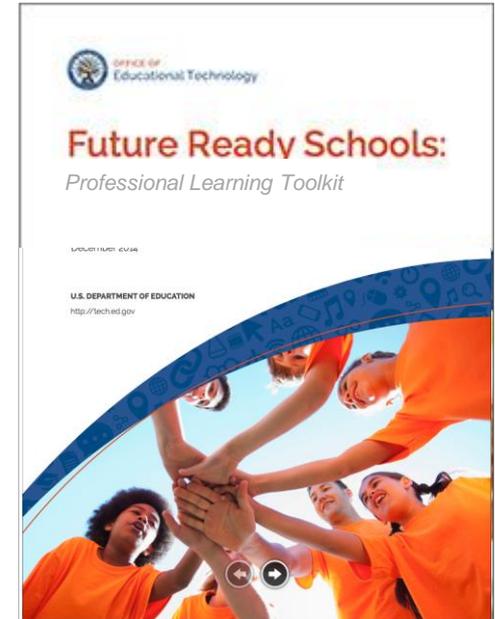
Infrastructure Guide



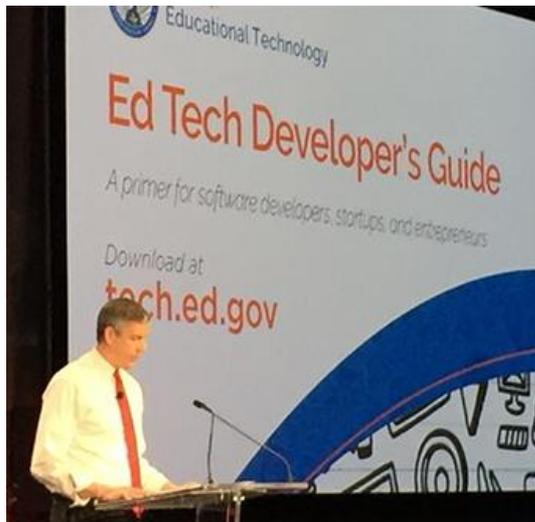
Developers Guide



Teachers Guide



Equal Access to Technology is a Civil Right



“If the technology revolution only happens for families that already have money and education, then it’s not really a revolution.”

~ Arne Duncan

Future Ready Pledge

tech.ed.gov/FutureReady

#FutureReady

Future Ready District Pledge



I, _____, Superintendent of _____ do hereby affirm the commitment of this district to work with students, educators, families, and members of our community to become Future Ready by engaging in a wide range of activities such as:

■ **Fostering and leading a culture of digital learning within our schools**

Future Ready district leadership teams work collaboratively to transform teaching and learning using the power of technology to help drive continuous improvement. We work together to protect student privacy and to teach students to become responsible, engaged, and contributing digital citizens.

■ **Helping schools and families transition to high-speed connectivity**

Future Ready districts conduct comprehensive diagnostic assessments of the district's technology infrastructure and develop a sustainable plan to ensure broadband classroom connectivity and wireless access. Future Ready districts work with community partners to leverage local, state, and federal resources to support home Internet access outside of traditional school hours.

■ **Empowering educators through professional learning opportunities**

Future Ready districts strive to provide everyone with access to personalized learning opportunities and instructional experts that give teachers and leaders the individual support they need, when they need it. Future Ready districts provide tools to help teachers effectively leverage learning data to make better instructional decisions.

■ **Accelerating progress toward universal access for all students to quality devices**

Future Ready districts work with necessary stakeholders to ensure that all students and educators across the district have regular access to devices for learning. Future Ready districts develop tools to support a robust infrastructure for managing and optimizing safe and effective use of technology, so students have opportunities to be active learners, creating and sharing content, not just consuming it.

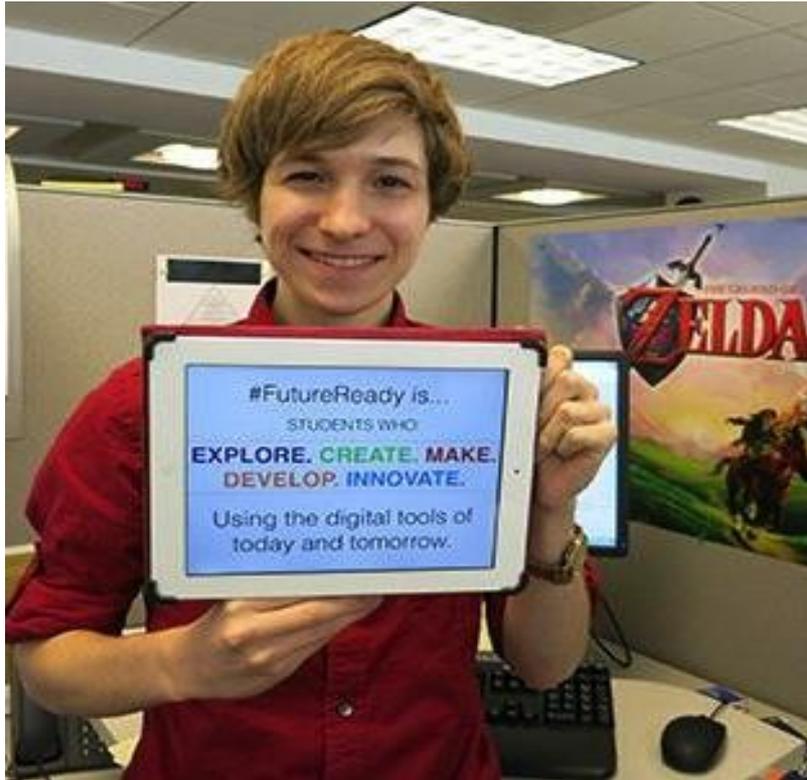
■ **Providing access to quality digital content**

Future Ready districts align, curate, create, and consistently improve digital materials and apps used in the support of learning. Future Ready districts use carefully selected high quality digital content that is aligned to college and career ready standards as an essential part of daily teaching and learning. Teachers are able to share, discover, and adapt openly-licensed materials and teaching plans.

■ **Offering digital tools to help students and families Reach Higher**

Future Ready districts make digital resources available that help access expanded college, career, and citizenship opportunities. Future Ready districts promote ways to leverage technology to expand equity through digital activities such as completion of the FAFSA online, virtual counseling services, college scholarship search tools, and online advising access, all of which help to return America to the nation in the world with the highest college completion rate by 2020.

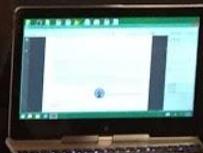
#Future Ready Pledge





ConnectED  TO THE FUTURE

ConnectED  TO THE FUTURE



1825 Pledges

11.5 Million Students

tech.ed.gov/FutureReady



How are we meeting our goal?

- Support from the President and Secretary of Education
- Reallocated and increased funding from FCC
- Public-Private Partnerships with ed tech companies
- New guidance for leaders, teachers, & developers
- Creating a brand (Future Ready) that states & districts can embrace to seek local support



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Thank you!

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