Welcome to the National Girls Collaborative Project
National Webinar
Diving into 'Careers with Code' with Google and the NGCP
November 30, 2016
Agenda

• NGCP Vision and Goals
• Google and Careers with Code
• Careers with Code Overview
• CS Pathways
• Call to Action
• Questions and Closing
Speakers

Angelica Anguanzo, Frontend Engineer, Google

Abby Bouchon Daniels, K-12 Education Outreach Specialist, Google

Heather Catchpole, Co-Founder and Head of Content, Refraction Media

Karen Peterson, Co-Founder and CEO, NGCP
NGCP Vision

The National Girls Collaborative Project (NGCP) brings together organizations that are committed to informing and encouraging girls to pursue careers in science, technology, engineering, and mathematics (STEM).
NGCP Goals

1. **Maximize access** to shared resources within organizations interested in engaging girls in STEM.

2. **Strengthen the capacity** of programs by sharing exemplary practice research and program models.

3. **Use the leverage of a network** to achieve gender equity in STEM.
National Network of Collaborative Teams
Google and Careers with Code

[Logo of Code with Code: Game-changing jobs of tomorrow]

[Images of people smiling and laughing]

[Google logo]
### What is the problem?

<table>
<thead>
<tr>
<th>Future Careers</th>
<th>Availability of Education</th>
<th>Diversity</th>
<th>Future Economy</th>
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</thead>
<tbody>
<tr>
<td>• 71% new STEM jobs will be in CS by 2018</td>
<td>• 9 out of 10 High Schools in the US don’t offer CS classes</td>
<td>• Women currently represent only 28% of ICT employees.</td>
<td>• Demand for CS graduates is growing globally.</td>
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<td>• Median pay $39/hr in CS vs $21/hr av.</td>
<td>• AP CS courses have decreased by 33%</td>
<td>• Black and Hispanic &lt;&lt; 10% IT workforce (7% and 9%)</td>
<td>• By 2020, global demand will exceed the number of graduates by 1 million jobs.</td>
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<td>• Tech skills gap</td>
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What is the problem?
CS + X

MISSION POSSIBLE
Nine ways computer science can make the world a better place.

SILICON SEAMSTRESS

ACCESSIBILITY

CS: BUSINESS

CS: HEALTH AND SUSTAINABILITY

CS: SPORTS

CS: SOCIAL JUSTICE

CS: ART

CS: START

Contents
Careers with Code - the evolution

2014
- One copy to all Aust high schools
- Distributed via outreach and events. (40,000)
- E-zine
- Tablet edition

2015
- 2015
- 50 copies to every Australian high school (175,000)
- E-zine
- Website

2016
- 50 copies to every Aust. and New Zealand high school
- 20 copies to every university careers centre (250,000)
- E-zine/Website
- Classroom resources
- US edition + VR
- Teachers
About me

Childhood

College

Career
About me

Childhood
- Mom
- School - Math
- Tech Exposure

College
- Film + Something
- Discovering CS
- Diversity

Career
- Web Development
- YouTube
- Android
Technical Development

- Theatre
- Elementary
  - Film Editing
- High School
- College
  - Animation
  - Graphics
- Career
  - UX/UI
  - Frontend Engineering
Why CS and Careers with Code?

<table>
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<tr>
<th>Opportunity</th>
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<td>Development / Creation</td>
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<tr>
<td>Progress</td>
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<tr>
<td>Resources</td>
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Discussion Questions
Google Call to Action

Creating change

Computer science skills have never been more relevant
**NGCP Call to Action**

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<tr>
<th>Day</th>
<th>Activity</th>
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<tr>
<td>Monday, December 5</td>
<td>Read the <a href="#">Guest Blog Post from Girls Who Code</a>. Participate in the Twitter Chat at 9:00AM Pacific (12:00PM Eastern): ‘Gender Equity in Coding: How do we get there?’ #CrackTheCode</td>
</tr>
<tr>
<td>Tuesday, December 6</td>
<td>Watch the webinar: ‘Lessons Learned for Effective Evaluation of Girl-Serving CS Programming’. Read inspiring pieces from the <a href="#">CS OPEN</a> Grantees <a href="#">Young Women in Computing</a> and <a href="#">University of Maryland, Baltimore County</a>.</td>
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<tr>
<td>Wednesday, December 7</td>
<td>Read the <a href="#">Guest Blog Post from Girlstart</a>. Share ‘Made with Code’ with one girl. Participate in the Afterschool Alliance (@afterschool4all) and the National AfterSchool Association (@NatlAfterSchool) Twitter Chat at 11:00AM Pacific (2:00PM Eastern). #afterschoolICS</td>
</tr>
<tr>
<td>Thursday, December 8</td>
<td>Watch the Design Squad Global video: ‘Hi-Tech Locker’. Solve a real-world problem with one girl using the <a href="#">Design Squad Global</a> model. Read the inspiring new coder <a href="#">Racheal Hill’s Guest Blog Post</a>. (Available on December 8.)</td>
</tr>
<tr>
<td>Friday, December 9</td>
<td>Read the video game designer <a href="#">Josh Hughes’ Guest Blog Post</a>. Watch the webinar: ‘Diving into 'Careers with Code' with Google and the National Girls Collaborative’. Visit <a href="#">The Connectory</a> to find or input computer science opportunities in your area.</td>
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Join NGCP and Girls Who Code for a CS Ed Week Twitter Chat:

'Gender Equity in Coding: How do we get there?'

December 5
9:00AM Pacific/12:00PM Eastern

#CrackTheCode

#NGCPCSEdWeek2016
Get Involved with NGCP

- Follow us on social media, @NGCProject
- Attend local events and national webinars
- Join your local Collaborative leadership
- Collaborate to serve more girls in STEM
Thank you for joining us today!