Community Computer Science

Ryan Robidoux, Computer Science (Old Colony RVT High School)

Today's Goals

1. Discuss **strategies** for creating **computer science events** within the community

2. **Learn** about computer science **activities**

3. **Develop** your own computer science **community event**

Ryan Robidoux
Computer Science Department
Old Colony RVT High School

Today's Expectations

- ✤ I'll provide the notes

- ✤ Interruptions welcome…ask me questions!

- ✤ Ask yourself, "How would this look in my community/district?"

- ✤ Poke fun at my presentation #TeamProcrastinate

Ryan Robidoux
Computer Science Department
Old Colony RVT High School

Online Resources

✤ Today's Resources (https://rrobidoux.github.io)

✤ CS Event Planning Template (https://goo.gl/ijcUWi)

✤ Websites

   ✤ code.org

   ✤ www.familycodenight.org

Ryan Robidoux
Computer Science Department
Old Colony RVT High School

Computer Science…who cares?

90%
parents want their child to study computer science

40%
of schools teach computer programming
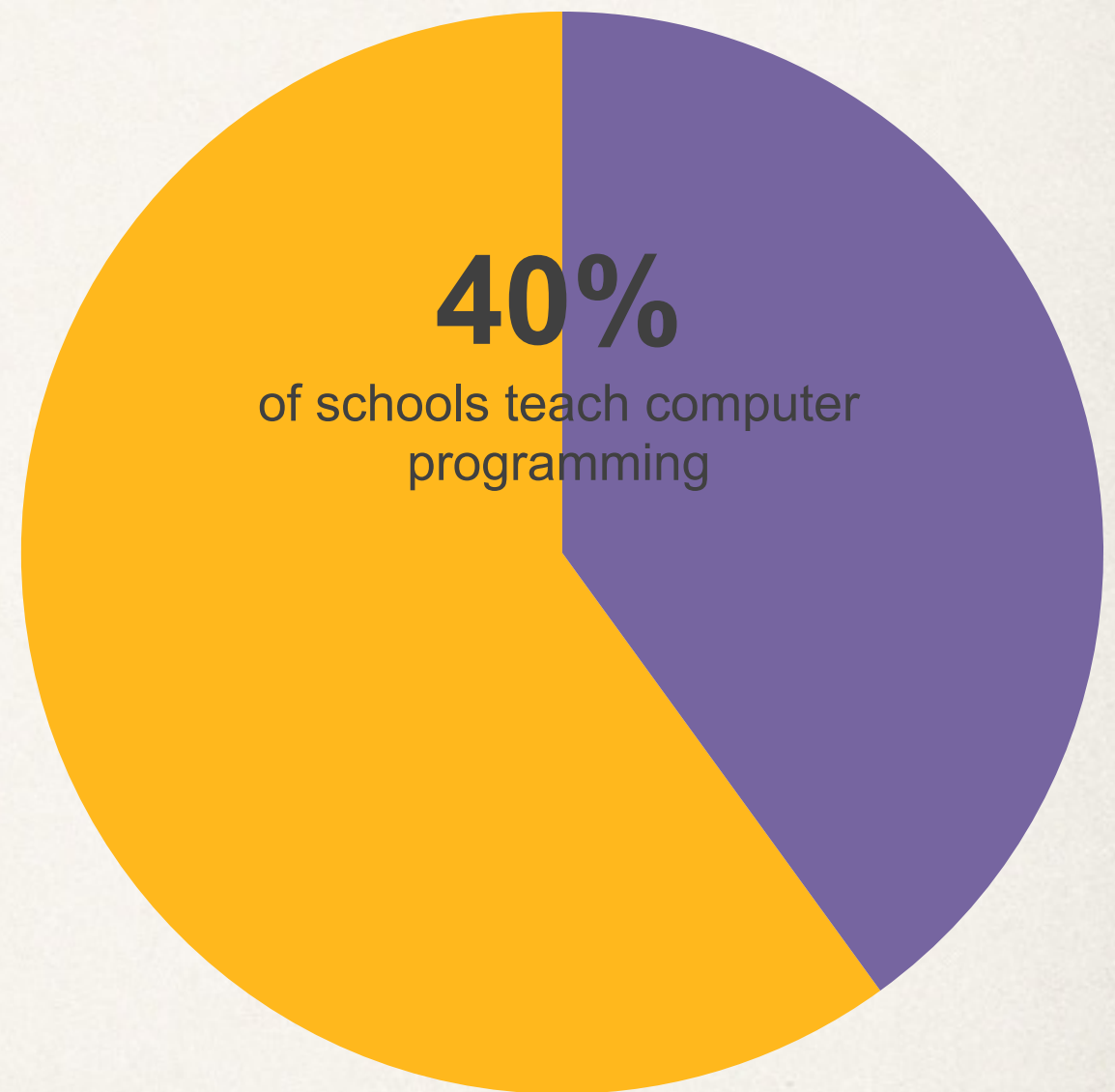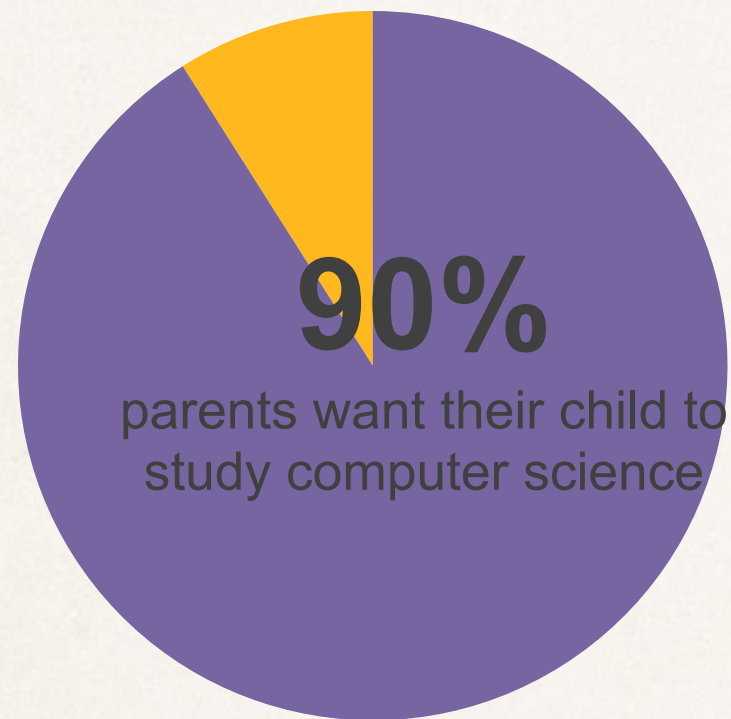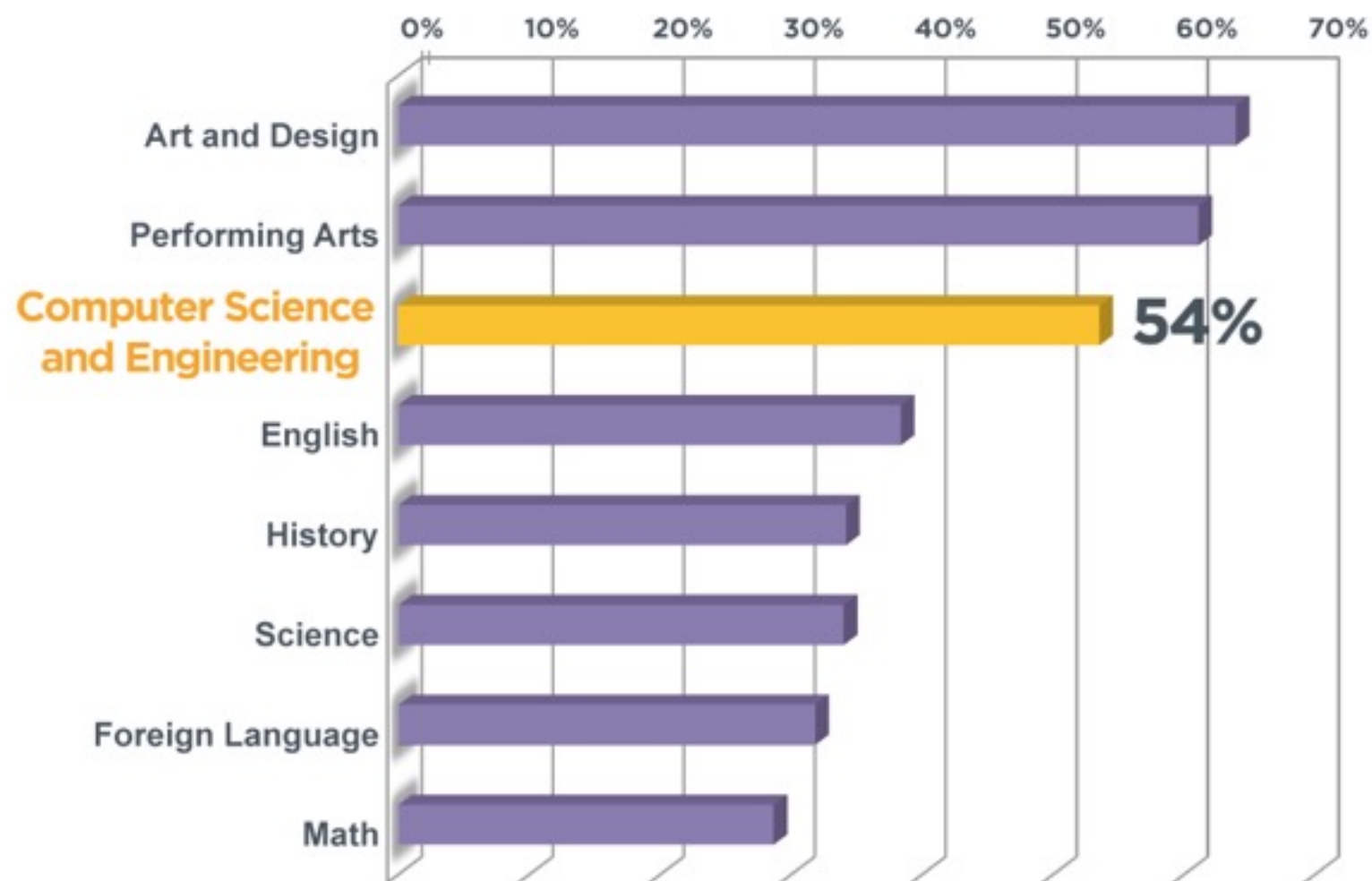
Source: Gallup

Ryan Robidoux
Computer Science Department
Old Colony RVT High School

Computer Science…who cares?

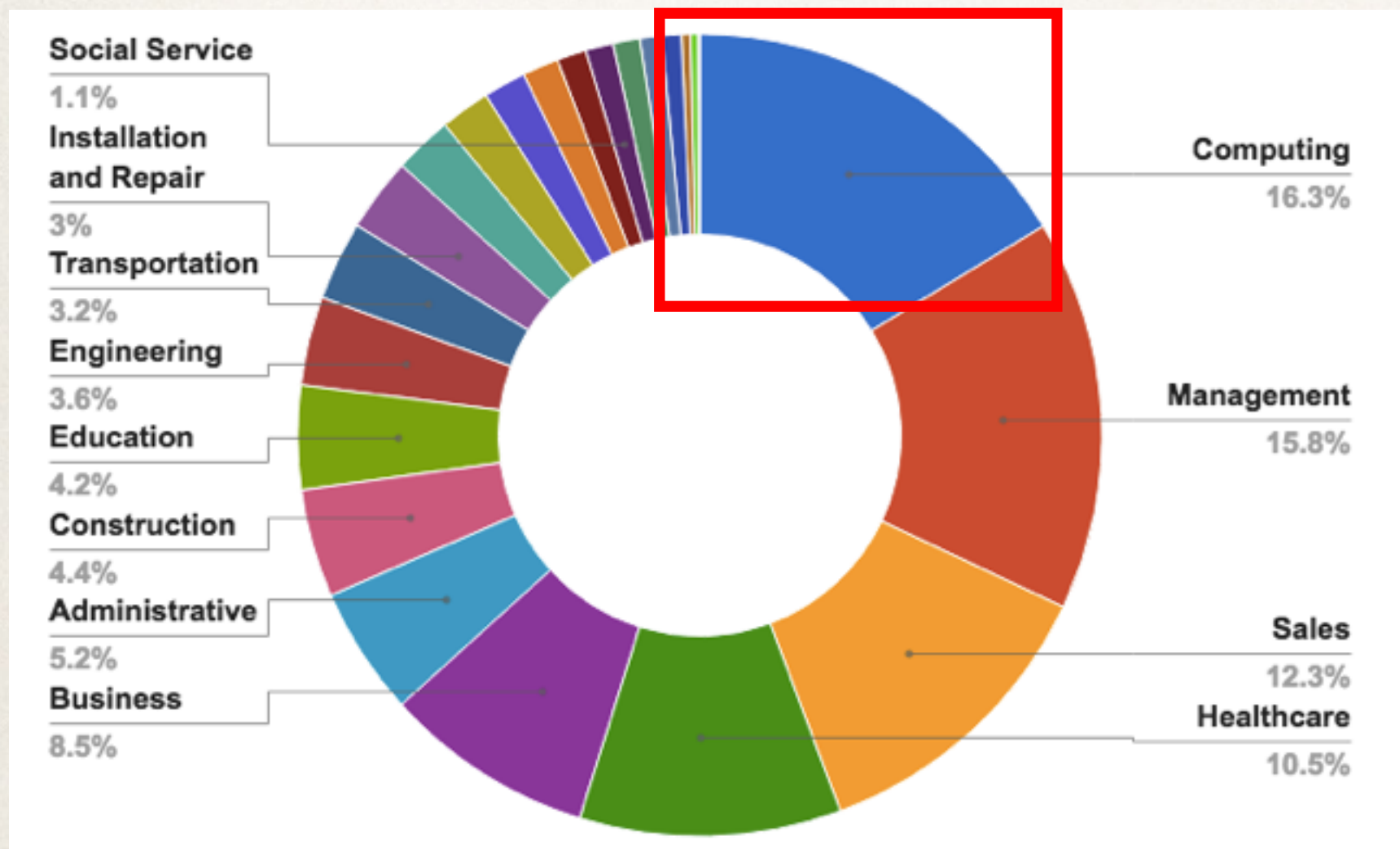Source: Change the Equation

Ryan Robidoux
Computer Science Department
Old Colony RVT High School

Computer Science…who cares?

- ✤ Computing is **largest** form of **new US wages**

- ✤ 18,048 **open CS jobs** in MA

- ✤ Over **3 times state avg.**

Ryan Robidoux
Computer Science Department
Old Colony RVT High School

Computer Science…what is it?

* **More than** "coding" and "using apps"

* "**Design and creation** of computational systems to **solve a problem**"

* Increasingly a **gateway to success** in global market

* **BRAINSTORM**: How does **CS affect society**?

Ryan Robidoux
Computer Science Department
Old Colony RVT High School

Old Colony Hour of Code

Goals

- CS for All

- CTE Opportunities

Settings

- Three district middle schools

- Over 500 students (Gr. 5-8)

- Every 7th and 8th grade classroom

Ryan Robidoux
Computer Science Department
Old Colony RVT High School

Old Colony Hour of Code Activities

✤ <u>Student-created, student-led</u>

✤ Coding Activities

✤ Unplugged Activities

Ryan Robidoux
Computer Science Department
Old Colony RVT High School

Computer Science Events

* STEM Week (October 22-26)

* Family Code Nights

* Vocational Events

  * Career Awareness Day

  * Open House of CTE shops

Ryan Robidoux
Computer Science Department
Old Colony RVT High School

Benefits

✤ Recruitment Tools

✤ Providing CS Access

✤ Creating relationships (industry, community)

A Exercise in Equity
Planning Strategies

* **GOAL**: Engage all demographics

* Limit the number of chairs

* ID community needs

* Consult community regarding attendance barriers

* Follow up for feedback

Ryan Robidoux
Computer Science Department
Old Colony RVT High School

I'm Bored…Let's Do Something!

DIY Computer Science Event

* CS Event Template

* **Hands-On** Activities

  * Stack-bot

  * rrobidoux.github.io

Ryan Robidoux
Computer Science Department
Old Colony RVT High School