

https://powcoder.com Week 3: Data Visualization & Add Worthatipotiwcoder

T2 2022



Agenda

- Recap on Week 2 topic
- Assignment Project Exam Help
 Continue with discussion on "A simple appropriate to be appropriate to be appropriated by the continue with discussion on the simple appropriate to be appropriately be the continue with discussion on the simple appropriate to be appropriated by the continue with discussion on the simple appropriate to be appropriated by the continue with discussion on the simple appropriated by the continue with discussion on the simple appropriated by the continue with discussion on the simple appropriated by the continue with discussion on the simple appropriated by the continue with discussion on the simple appropriated by the continue with discussion on the simple appropriated by the continue with discussion on the simple appropriated by the continue with discussion on the simple appropriated by the continue with discussion on the simple appropriated by the continue with discussion of the continue with the continue wit
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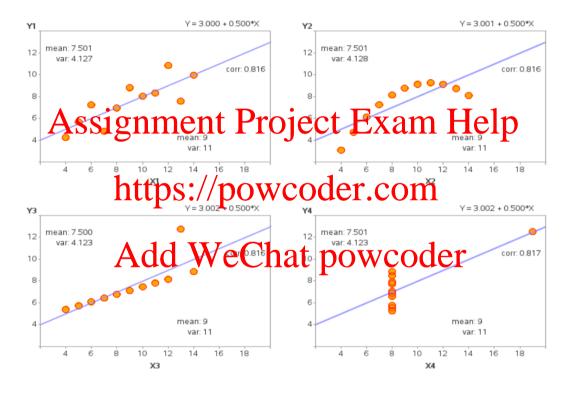


Recap: Anscombe's Quartet example (1)

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6	7.24	6	6.13		6	6.08		8	5.25
4	4.26	l Wel	3.1	4	4	5.39		8	5.56
12	A0840	l VV OR		τ)OW	COU	er	8	7.91
7	4.82	7	7.26	•	7	6.42		8	6.89
5	5.68	5	4.74		5	5.73		19	12.5



Recap: Anscombe's Quartet example (2)





An simple approach to build a Good Chart





Understand the Science of How We See

- 1. We don't go in order
- 2. Wesseig firstenthaltstjæcks loutam Help
- 3. We seletiply: a pewthings rationce
- 4. We seek hearing band prake confinections
- 5. We rely on conventions and metaphors



What are the two questions we should consider before create visualization...

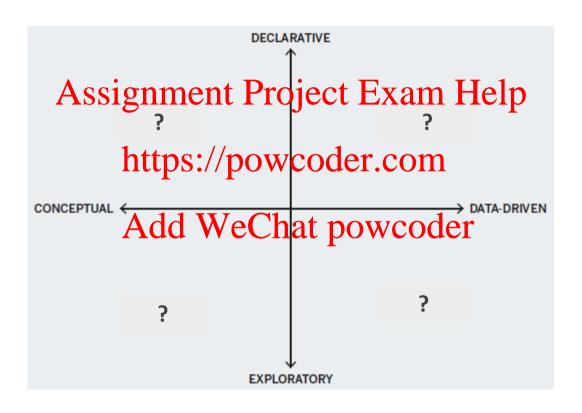
visualization...
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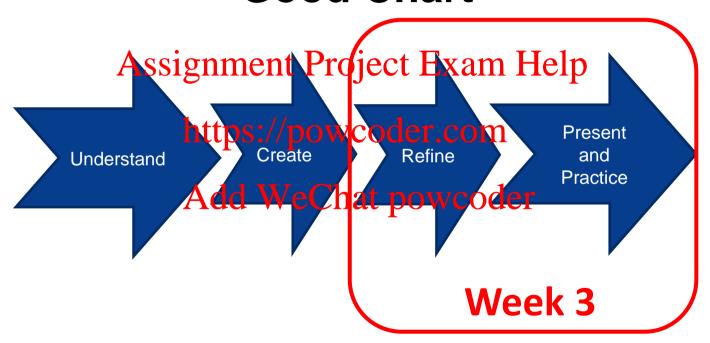
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A Typology for Chart Making



An simple approach to build a Good Chart





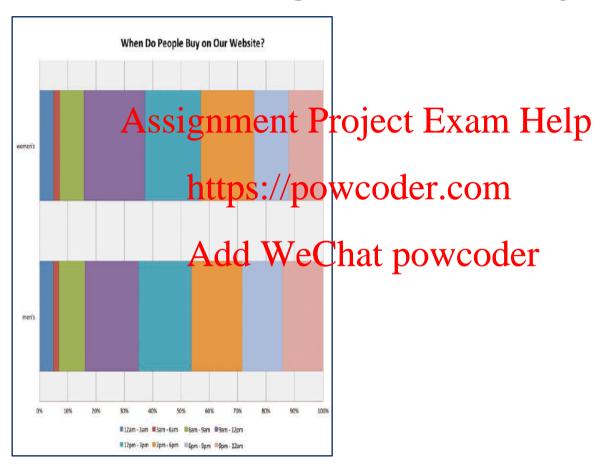
The "Feeling Behind Our Eyes"

BAD GOOD

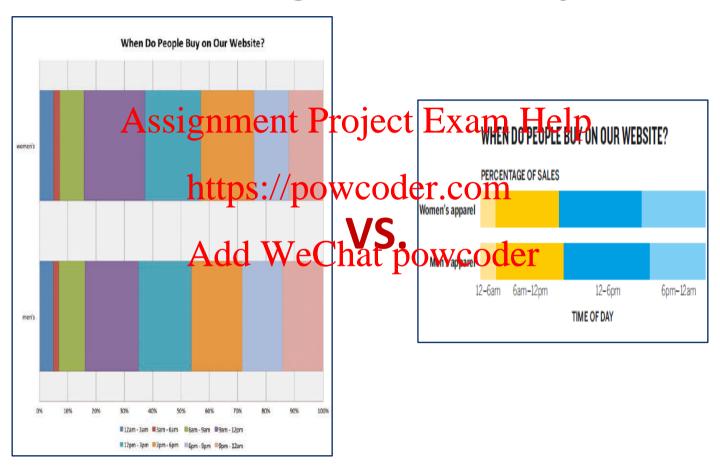




The "Feeling Behind Our Eyes"



The "Feeling Behind Our Eyes"



How to Create the "Good Feeling Behind Our Eyes"

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https://powcoder.com Refine to Persuade Add WeChat powcoder



Refine to Impress

- 1. To make charts feel **neat** or **clean**, focus on design structure and hierarchy Assignment Project Exam Help
- 2. For charts that just make sense or feel instantly https://powcoder.com understood, focus on design clarity

Add WeChat powcoder
3. To make charts that look elegant or beautiful, focus on design simplicity



Achieve Neatness (1): Use Consistent Structure

- Title
 Assignment Project Exam Help
- Subtitle https://powcoder.com
- Visual field (visuals, axes, labels, captions, legend) Add WeChat powcoder
- Source line



Achieve Neatness (1): Use Consistent Structure

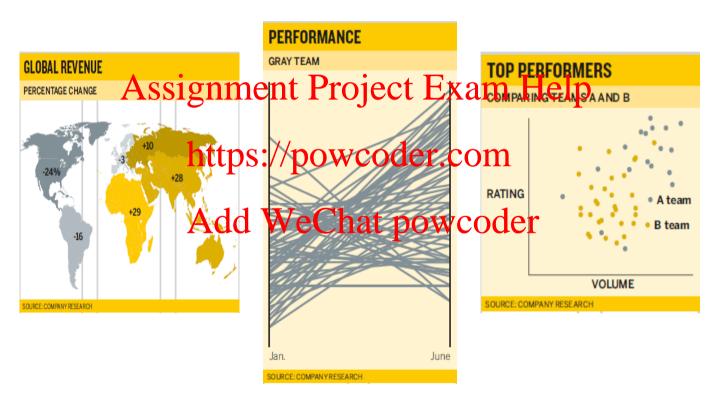
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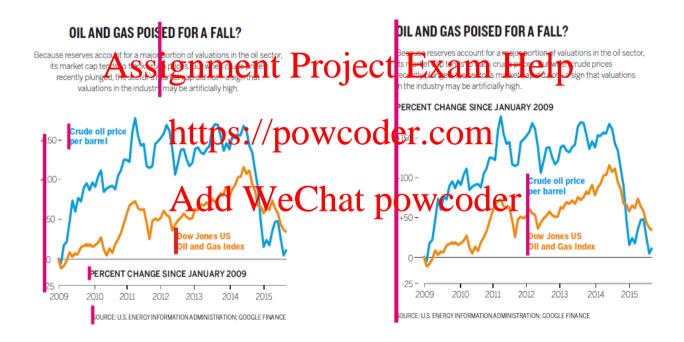
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Source line 5%

Use Consistent Structure: Examples

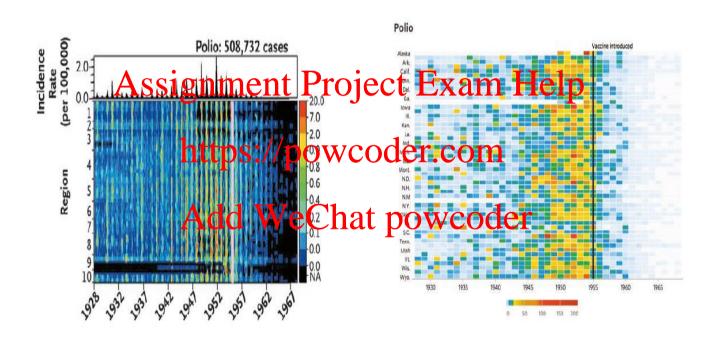


Achieve Neatness (2): Keep Elements Aligned



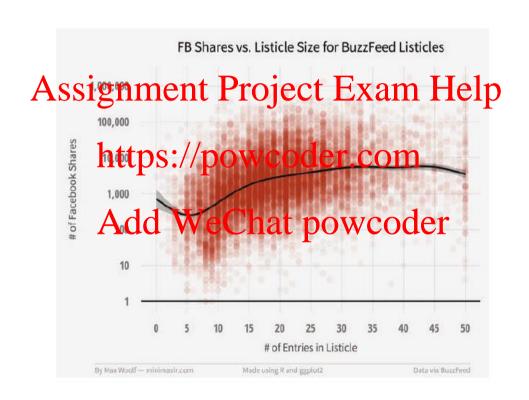


Achieve Clarity





Achieve Clarity (1): Each element is unique and supports the visual



Achieve Clarity (2): Remove ambiguity

Each element in your visualization has a single suppose that Project can't be misinterpreted https://powcode

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Achieve Simplicity

Clarity concerns effective communication: Does the idessignment groject Exam Help

Simplicity focuses on effective presentation: wcoder come value of the second of the s



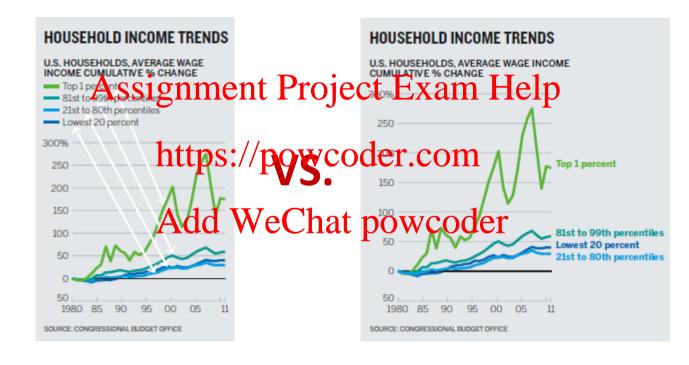
Achieve Simplicity (1): Minimize the number of color use

WHEN DO PEOPLE BUY ON OUR WEBSITE?



Colors are like fractions that can be reduced.

Achieve Simplicity (2): Limits eye travel

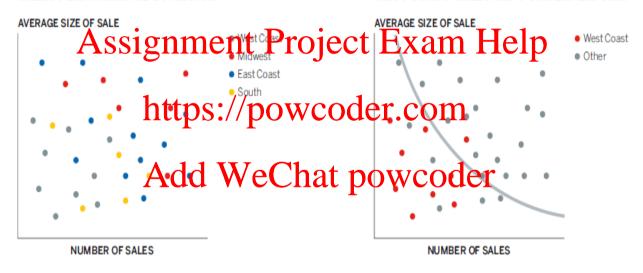




Refine to Persuade

SALES PERFORMANCE BY REGION

WEST COAST SALES REPS UNDERPERFORM



SOURCE: COMPANY RESEARCH

SOURCE: COMPANY RESEARCH



Refine to Persuade

- 1. Hone the Main idea
 Assignment Project Exam Help
- 2. Maktost/stamodentom

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3. Adjust what's around it



Hone the main idea

What am I trying to say or show?

I am trying to show the distribution of costs of buying a been at baseball stadiums.

I am trying to show the relationship between increased automation in manufacturing and fewer jobs being available. need for new jobs that are hard to fill.

I am trying to show how increasing hours spent on work isn't had reasing MVd tctvity and may be decreasing it.

I am trying to show the relationship between unbundling products and declining revenue.

I am trying to show that the gardening population is a large, growing, diverse, and underserved market

I need to convince them that

I need to convince them that beer is unrea-sonably expensive at every single baseball

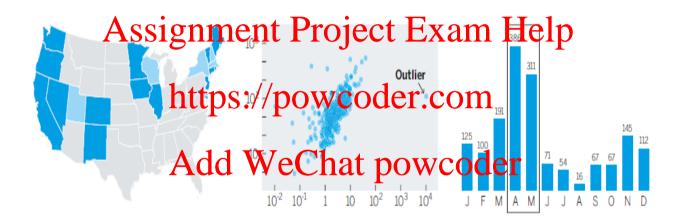
I need to convince them that although profits are higher, robots are killing manufacturing Automation increases plots but creates V C out to creating a massive skills gap that offsets those short-term gains.

> I need to convince them that all this extra A work lead to Gall in the it's hurting the company's productivity, not helping.

I need to convince them that unbundling our software suite will devastate revenue streams.

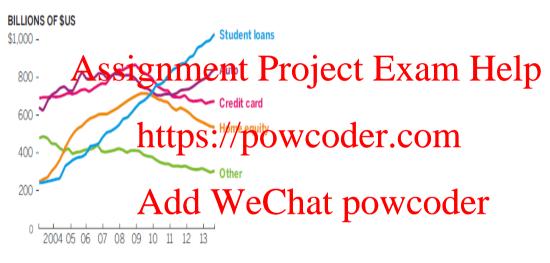
I need to convince them that growth in the gardening market is coming from gardeners who are hungry for apps, younger, and more technically savvy than they think.

Make it stand out: Emphasize





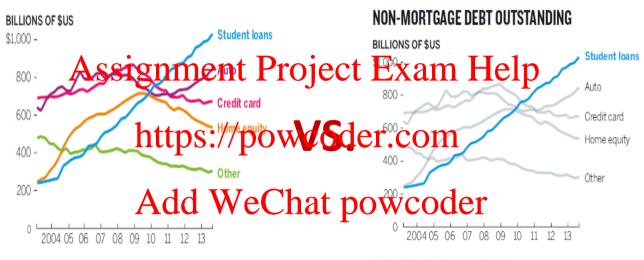
Make it stand out: Isolate



SOURCE: FEDERAL RESERVE BANK OF NEW YORK



Make it stand out: Isolate



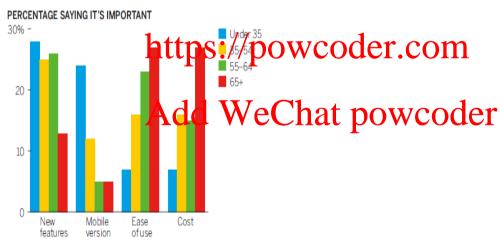
SOURCE: FEDERAL RESERVE BANK OF NEW YORK

SOURCE: FEDERAL RESERVE BANK OF NEW YORK



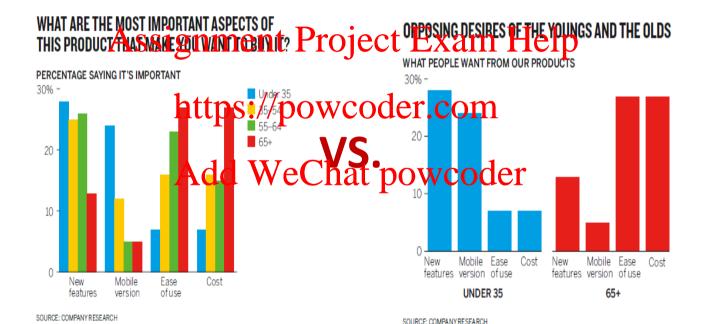
Adjust what's around it: Remove reference points

WHAT ARE THE MOST IMPORTANT ASPECTS OF THIS PRODUCT THAN BUT ASPECTS OF PRODUCT THAN BUT ASPECTS OF THIS PRODUCT THAN BUT ASPECTS OF THIS PRODUCT THAN BUT ASPECTS OF THIS PRODUCT THAN BUT ASPECTS OF THE PRODUCT THAN BUT AS



SOURCE: COMPANY RESEARCH

Adjust what's around it: Remove reference points



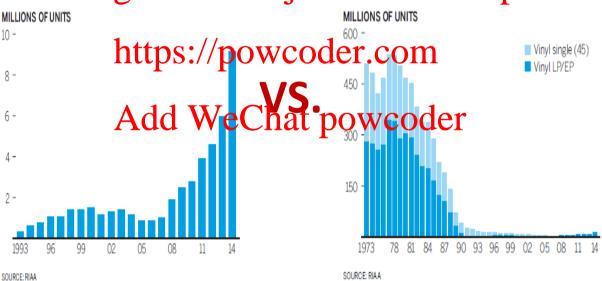
Adjust what's around it: Add reference points

VINYLSALPASIUS Penment Project Exam Help



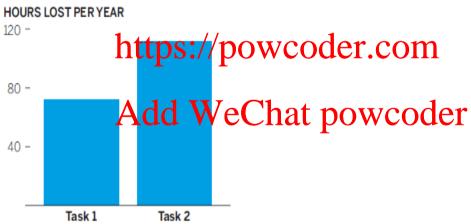
Adjust what's around it: Add reference points

VINYLSALASIUS Pgnment Project WESSAME Help



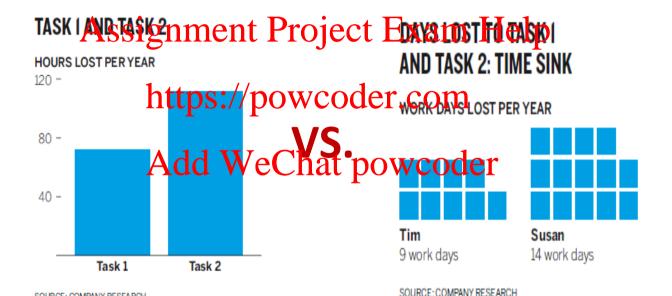
Adjust what's around it: Shift reference points

TASK | AND TASK | AND



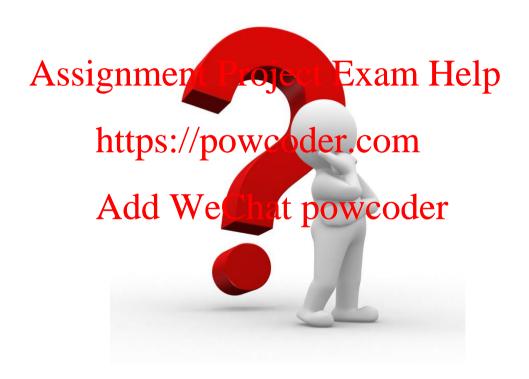
SOURCE: COMPANY RESEARCH

Adjust what's around it: Shift reference points

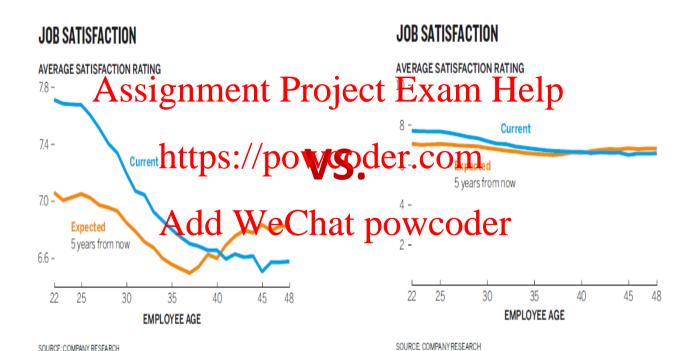


SOURCE: COMPANY RESEARCH

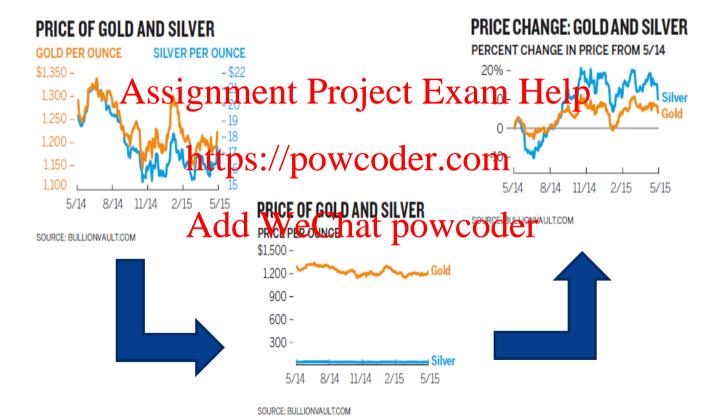
Persuasion or Manipulation



The Truncated Y-axis



The Double Y-axis

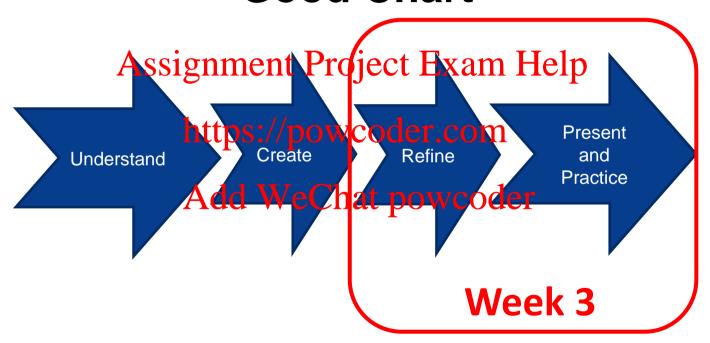


Persuasion or Manipulation?

- Does my chart make it easier to see the idea, or is it actively changing the idea?
- If it's chariging the idea, does the new ideal contradict or fight with the one in the less persuasive chart? https://powcoder.com
- Does eliminating information hide something that would rightfully challenge the idea I'm showing?
- Would I feel duped if someone else presented me with a chart like this?

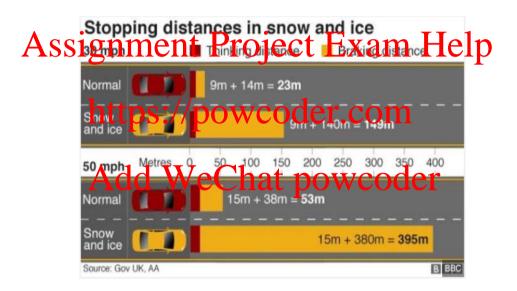


An simple approach to build a Good Chart





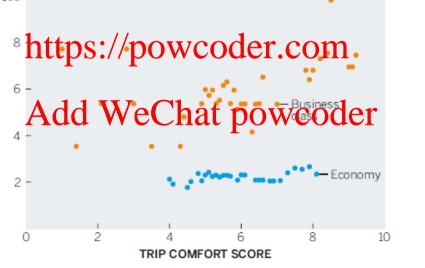
Presentation tips (1): Show the chart and stop talking





Presentation tips (2): When it's time to talk, don't read the picture

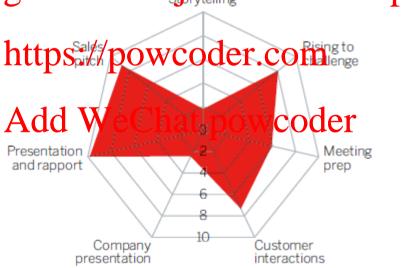
Assignments Project Exam Help



SOURCE: CARLSON WAGONLIT TRAVEL (CWT) SOLUTIONS GROUP, TRAVEL STRESS INDEX RESEARCH (2013)

Presentation tips (3): Use reference charts

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SOURCE: COMPANY RESEARCH

Presentation tips (3): Use reference charts

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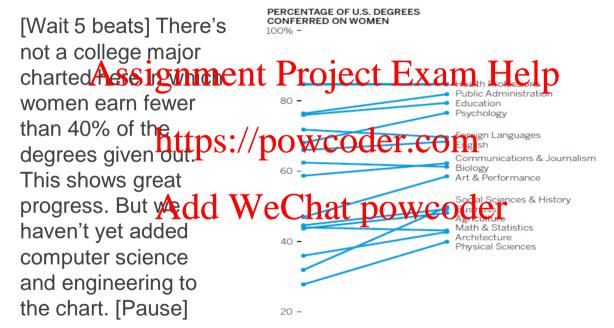


SOURCE: COMPANY RESEARCH



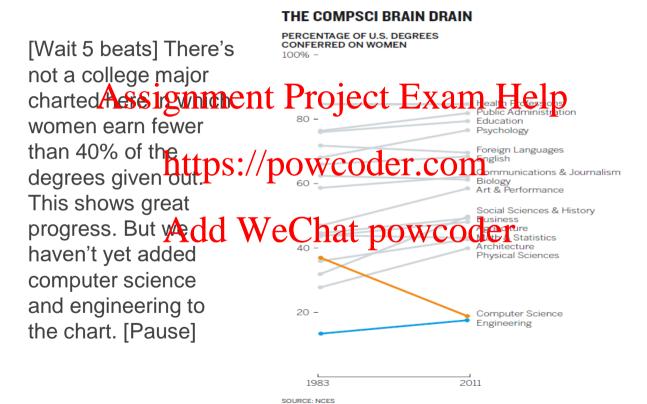
Engagement tips (1): Create tension

MORE WOMEN ARE EARNING DEGREES



1983 2011

Engagement tips (1): Create tension



Engagement tips (2): Tell Stories

• Setup: Here is some reality

Assignment Project Exam Help
• Conflict: Here is new information that

- Conflict: Here is new information that complicates/operangles.ceality
- · Resolution. Here is the week reality



Engagement tips (2): Tell Stories

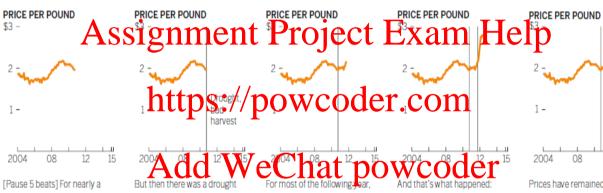
MAPPING STORIES

A	søignment l	Project Exa	WILE E. COYOTE AND MHITTO PONNER
Setup	Man goes on whaling	Boy Wizard survives attack by Evil Wizard OWCOGET.CO	Wile E. Coyote sets
Conflict	Man's captain becomes unhinged stelling whate revenge on one whale	To defeat Evil Wizard, Charles power Capalistic power Capalistic	Trap fails spectacularly oder
Resolution	Ship sinks, only man survives	Boy Wizard gives up life, Evil Wizard defeated	Road Runner escapes, Coyote injures self



Putting it all Together

WHAT CAUSED THE HIGHER PRICE OF PEANUT BUTTER?



decade, prices of peanut butter were smooth. Modest increases during the recession mapped to rises in most food prices. But then there was a drought and a bad peanut harvest. What happened? Where did prices go from here? [Pause, invite speculation]. For most of the following sar, prices were actually flat, until the next harvest approached, when prices started to rise as growers feared another drought.

And that's what happened: another bad harvest. Prices spiked almost 50%. And since then ... [Pause] 2004 08 12 18

Prices have remained high.
One bad harvest was tolerable,
but two sent prices to
nearly \$3 per pound, where
they've remained for nearly

half a decade.

SOURCE: CPL



Walkthnowehert Designing Report with SAS VA

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Assignment Project Exam Help Questions?

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