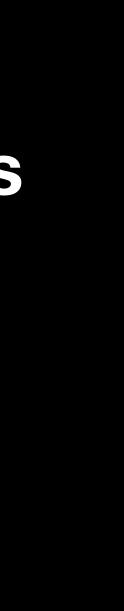
# Help! I'm a Research Software Nanager Four practices to be the manager your team, and research, needs



**US-RSE Virtual Workshop 2021** 

Jonathan Dursi





# **Congratulations!** Research deserves the best support we can offer

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# Not A Promotion, It's a Career Change

You've gone from a very experienced coder to a very junior manager





# No One Tells Us How

- Different work
- Need different set of skills
- Academia doesn't explicitly teach us these
- Few good examples
- Easy to feel at sea





## But we can learn and master new tools

Because great management:

- is not mysterious
- is not about personality type
- is not super complex or hard
- is about learning and applying a new set of skills and practices



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# We know what good managers do

photo credit: Christina @ wocintechchat.com on unsplash.com



### And you're probably already doing the hardest parts • . 🔒 💦 .....

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• 2009: Do managers matter?



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2012, the program had been in place for several years, and the company could point to statistically significant improvements in managerial effectiveness and performance. Now executives were wondering: how could Google build on the success of this project, extending it to senior leaders, teams, and other constituencies while striving to create truly amazing managers?

Keywords: Organizational Behavior; Business Policy; General Management; Human Resource Management; Management; Leadership; Human Resources

Language: English Format: Print 24 pages





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Harvard Business Review

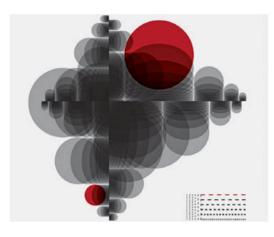
Leadership Development | How Google Sold Its Engineers on Management

### **How Google Sold Its Engineers on Management**

by David A. Garvin

From the December 2013 Issue

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### Harvard Business Review

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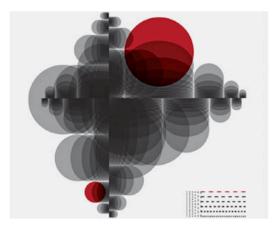
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TheStreet

### re:Work

### SUBJECTS GUIDES

CASE STUDIES

BLOG Q

### Managers

Managers matter a lot and can have a huge impact on employee performance. Support your people by sharing what makes a great manager, providing development opportunities, celebrating great managers, and more.



- 2009: Do managers matter?
- Data comes in: Um, yeah.
- 2012: Management starts to change across the company
- Management training <u>available</u> online
- What Google found wasn't new, but has been very influential in computing



### Harvard Business Review

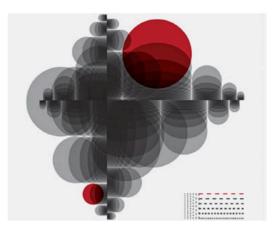
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### **Things Great Managers Do**

- Good coaches.
- Empower their team, not micro-manage. 2.
- 3. Express interest in their team members' success and personal well-being.
- Productive and results-oriented. 4.
- Good communicators and they listen to the 5. team.
- Help employees with career development. 6.
- 7. Have a clear vision and strategy for the team.
- 8. Have key technical skills that help them advise the team

### **Key Shortcomings of Poor Managers**

- 1. Have trouble making a transition to manager
- 2. Lack a consistent approach to performance management and career development
- 3. Spend too little time managing and communicating





# **RSE is collaborative** and collaboration is hard

Academic collaborative project:

- Learn underlying needs from domain experts and team members
- Get agreement on objectives
- Get everyone working on their part
- Make sure grad students, postdocs develop their skills
- Get the software done, papers out, and resulting presentations



photo credit: Christina @ wocintechchat.com on unsplash.com

# Things Great Managers Do

- 1. Are good coaches.
- Empower their team, not micro-manage. 2.
- Express interest in their team members' 3. success and personal well-being.
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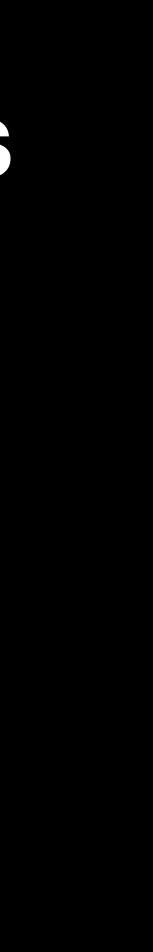
- Help grad students and postdocs upskill
- Get everyone working on their own part
- Learn and meet team members needs
- Get the software and paper out
- Communicate needs between domain experts and software developers; presentations
- Help grad students and postdocs upskill
- Understand and communicate objectives

Have technical skills needed for project to advance

# Just Need To Avoid Pitfalls - Learn the Basics

1. Having trouble making a transition to manager 2. Lacking a consistent approach to performance management 3. Spending too little time managing and communicating

### **But How?**



# Four things you can start doing to be a great manager Well understood, time-tested, management techniques

## One you can start now

• Weekly one-on-ones with your team members

### Two you can start soon

## And one ongoing:

Understand that you're not a software developer anymore

Frequent, specific, feedback - positive and negative - to your team members

Judiciously and increasingly delegate responsibility to your team members



# **Avoiding Pitfalls**

- 1. Having trouble making a transition to manager
- 2. Lacking a consistent approach to performance management
- 3. Spending too little time managing and communicating

## Acceptance Feedback, Delegation

One-on-ones

# Weekly one-on-ones The simplest and most important thing you can start doing for your team

- Every week, have scheduled 30min one-on-one meetings with each direct report
- Not status report get that elsewhere
- 10 minutes whatever they want to talk about
- 10 minutes whatever you have on your list to talk with them about
- 10 minutes the future and their career development



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- Pretty uncommon in academia
- Incredibly common elsewhere
- Lots of resources

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### One-on-Ones (A manager's guide) | Friday.app

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getlighthouse.com > blog > how-to-start-one-on-ones-y... -

### How to Start One on Ones with Your Team - Get Lighthouse

When you decide to start **one on ones** with your team, there's a lot to do to start off on the right foot. Get started like a pro with this guide.



- Show they have your undivided attention
  - Have a recurring appointment and don't skip them
  - Take notes, without a keyboard
- Learn about your team member and their work
- Learn things that they need from you (information, get things unstuck, introductions, career development)
- Let them know they'll get them
- Build trust by following through
- Review notes periodically



photo credit: Christina @ wocintechchat.com on unsplash.com

- Easily the most valuable time you'll spend a manager
- By doing this, you'll:
  - Understand your team members much better
  - Understand what's going on much better
  - Show you care and build trust
  - Start feeling like you can manage



photo credit: Christina @ wocintechchat.com on unsplash.com

# Frequent, Specific,

Let people know how they're doing

- Developers deserve to know what they're doing well and what they should change, as early as possible
- Software developers <u>feel more</u> <u>productive</u> when they're getting useful feedback about job performance
- Lots of research on what works:
  - Prompt
  - Specific know what to do
  - Focus on behaviour + impact





- SBI: situation, behaviour, impact
- Bad: "Nice job on the presentation!"
- Good: "In today's presentation, you covered the background material very clearly. It really helped Prof X's group understand what we need to do"





- SBI: situation, behaviour, impact
- Bad: "You need to get better at doing code reviews"
- Good: "On the PR for the updated model, it took a week for you to do the review. That blocked Nayeli's progress for half the sprint".



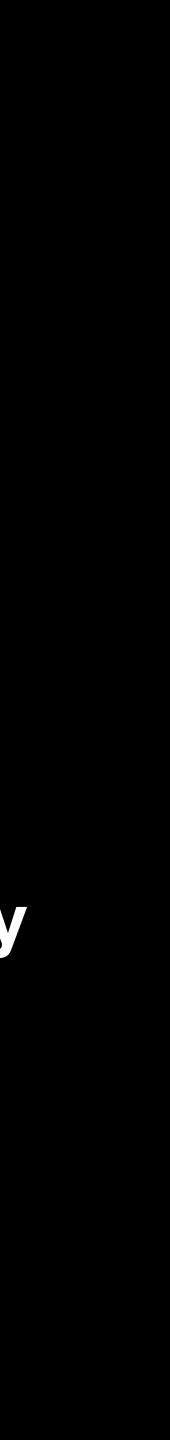


- Not about blame or praise, but clarity of expectations
- Nudging people to those expectations *in the future*
- Most feedback should be positive
- Take time to call out specific things they're doing that help you or the team
- Frequent, small, early feedback prevents many Big Conversations





# Increasingly Responsible Delegation Help your team members grow and take increasing responsibility



# Increasing Delegation

Helping your team members grow

- Keep an eye out for matches between:
  - Tasks of yours you already know how to do
  - Team members for whom the task might be a bit of a welcome stretch
- Tell them why you think this would be a good match for them and ask if they'd be willing to do it
- If so, give them support they need as they learn



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# Increasing Delegation

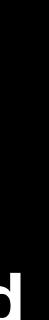
Helping your team members grow

- Done well helps your team members grow their skills,
- And gives you room to grow and tackle new challenges
- Requires knowledge of your team members (one-on-ones)...
- ...and the ability to give them guidance (specific feedback)



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# You're not a developer anymore Growing into your new role starts with leaving your old one behind



# Accept your new role Help your team members

- The job is to make your team more effective, not write code yourself
- You're no longer a <u>maker, you're a</u> <u>multiplier</u>
- "Glue work": coordination, collaboration, prioritization, conflict resolution, decision making
- Helping your team members advance their skills and careers
- A lot easier to do let go of coding tasks when you know what management tasks look like

# Work in Progress

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# You can do this

# You can do this You've learned harder stuff

- Mastering new techniques is hard
- Starting some of these practices may be uncomfortable
- You've learned harder skills than these, and felt awkward or clumsy until you mastered them
- But they were necessary for what you wanted to accomplish

photo credit: Jordan Wozniak on unsplash.com



# You can do this You've learned harder stuff

- Start one-on-ones in the coming month - give you time to prepare
- Over a couple months, learn about giving specific feedback, then start
- As you get to know your team members career goals better, start targeted delegation
- If you're doing some or most of these things after 4-6 months, you're doing great
- And there's lots of resources to help

photo credit: Jordan Wozniak on unsplash.com



# Research deserves the best support we can offer And you can be the manager your team, and research, needs

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# Weekly One-on-Ones Resources

- Manager-Tools basics podcasts
- <u>The Manager's Path</u>: Camille Fournier
- re:Work @ Google <u>one-on-one</u> <u>guide</u>
- <u>An online list</u> of good one-on-one resources.
- Huge list of potential questions
- My <u>quickstart guide for remote one-</u> <u>on-ones</u> early in the pandemic



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# Specific Feedback Resources

- Manager-Tools basics podcasts
- re:Work @ Google's <u>Situation-</u> <u>Behaviour-Impact model</u>
- <u>Three feedback models</u>
- Don't use "sandwich" feedback, <u>it</u> <u>doesn't work</u>
- Software developers <u>feel more</u> <u>productive</u> when they're getting useful feedback about job performance





## **Delegation Resources**

- Manager-Tools basics podcasts
- Manager-Tools Responsibility Ladder podcasts
- <u>An Engineering Team where</u> <u>Everyone is a Leader</u> - Gergely Orosz



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# **Growing Into Your Role** Resources

- re:Work new manager training guide
- <u>The Manager's Path</u>: Camille Fournier
- Lab Dynamics: Cohen & Cohen
- Rands (tech) leadership slack
- I have a <u>weekly link roundup</u> <u>newsletter</u> on the topic of managing research computing teams

# Work in Progress

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# Resources

At https://www.ResearchComputingTeams.org/USRSE2021 you can find

- A PDF of these slides
- A video recording of this talk, and
- An ebook with step-by-step instructions to starting one-on-ones with your team over the course of a month