Beyond technical skills: Leveraging the Carpentries for professional development

Kate Hertweck, PhD
Bioinformatics Training Manager,
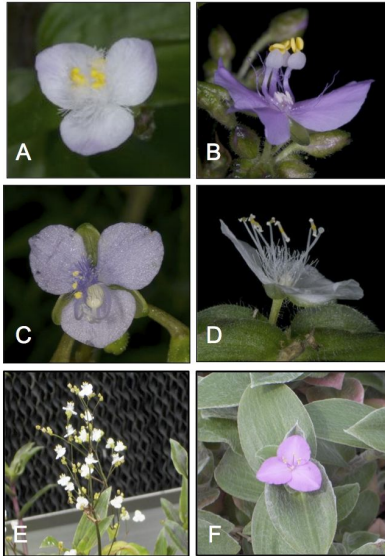Fred Hutchinson Cancer Research Center
katehertweck.com

THE CARPENTRIES

What else is there to data science besides data and science?

By the end of this workshop, you should be able to:

- Categorize types of professional assets
- Identify your current assets
- Target your areas for improvement
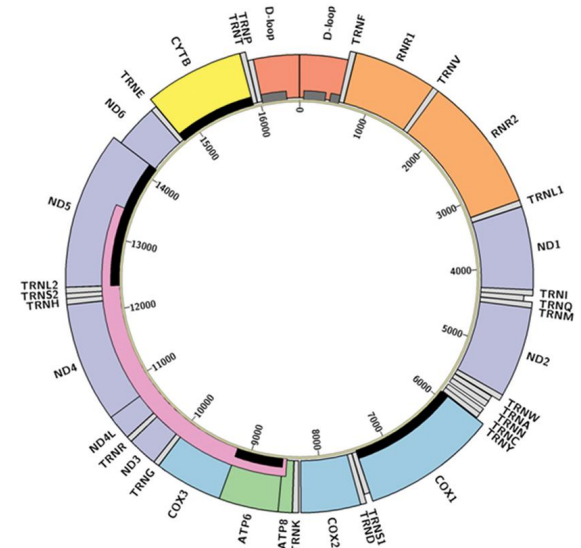- Brainstorm ways to develop these assets

Time, space, and community to explore.

Hertweck and Pires, 2014

By André Karwath aka Aka - Own work, CC BY-SA 2.5

Hertweck and Dasgupta, 2017

Professional development, Kate Hertweck, @k8hert

THE CARPENTRIES

DATA CARPENTRY

library Carpentry

software carpentry

The leading inclusive community teaching computing and data skills.

We build community to share knowledge and accelerate research

what my friends think I do   what my family thinks I do   what society thinks I do

what I actually do as a data scientist

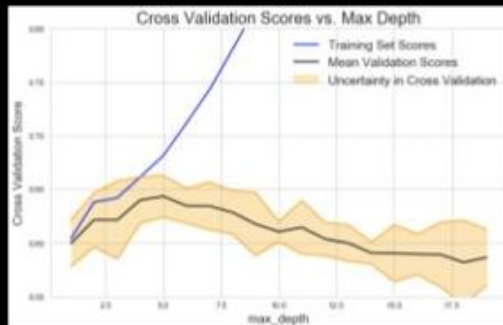Image modified from here

Professional development, Kate Hertweck, @k8hert

Verbal communication

Leadership

Written communication

Teamwork

Conflict resolution

Visual design

Strategic thinking

Organization

Adaptability and versatility

What non-technical skills do we bring to our work?

Kate's example:

public speaking

What are three of your biggest professional assets that are not technical data science skills?

What do you enjoy or feel passionate about?

THINK on your own

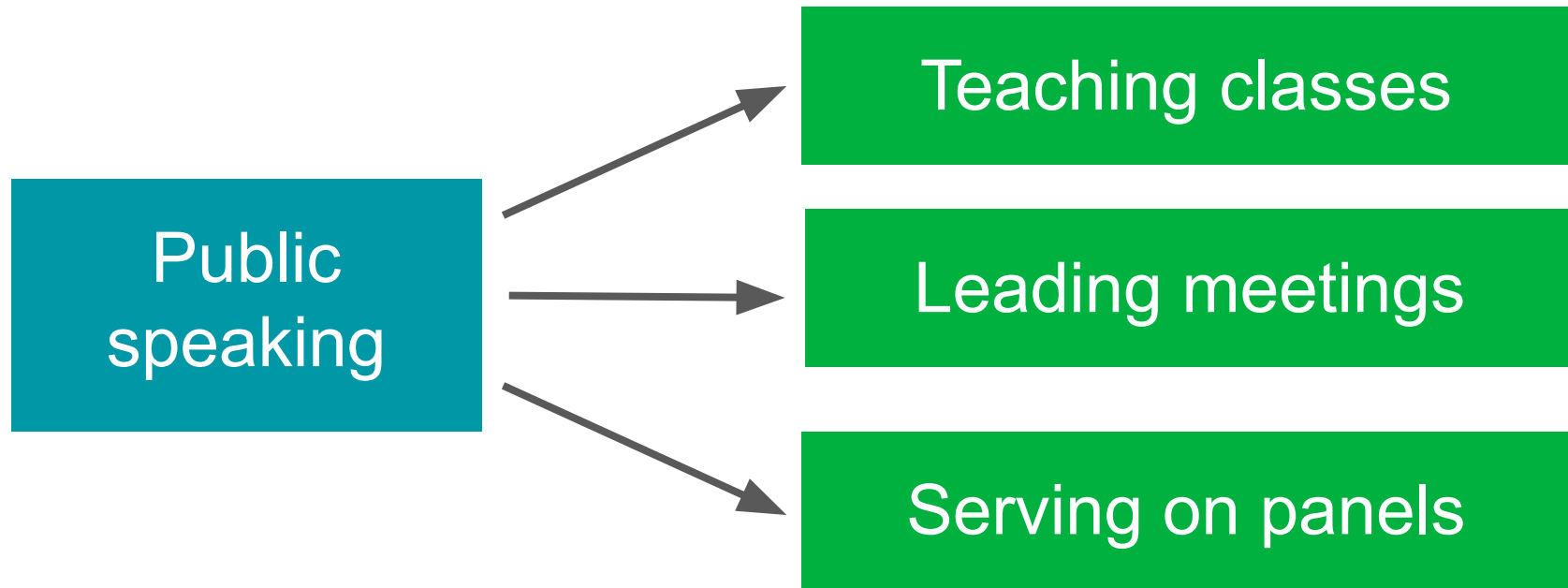**DISCUSS** with your breakout group

SHARE on Etherpad

Your assets map to specific tasks!

What do you enjoy doing?

What would you like to do?

Kate's example: public speaking

Public speaking

→ Teaching classes

→ Leading meetings

→ Serving on panels

What three non-technical skills or attributes are you most interested in developing?

Transferring existing assets to professional settings, or developing new skills

THINK on your own

DISCUSS with your breakout group

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How do you develop these assets?

What are small steps along this path?

What groups would allow you to pursue these small steps?

How do you develop these assets?

Kate's example:
leadership and strategy

THE
CARPENTRIES

[blog post](#)

How are you planning to start developing your skills?

For ideas, check out [roles in the Carpentries Community](#)

THINK on your own

DISCUSS with your breakout group

SHARE using Etherpad

You don't have to wait for opportunities to come your way! You can seek out resources to help you reach your goals.

What suggestions do you have for this workshop?

Feedback survey on Etherpad!