

```
# Adjust the overall font size
plt.rcParams.update({'font.size': 10}) # Adjust this value as necessary

# Normalize the numfiles for color mapping
norm_numfiles = np.array(numfiles) / max(numfiles)
```

```
cmap = cm.get_cmap('spectral') # use spectral color palette
colors = cmap(norm_numfiles)

# Create a treemap
```

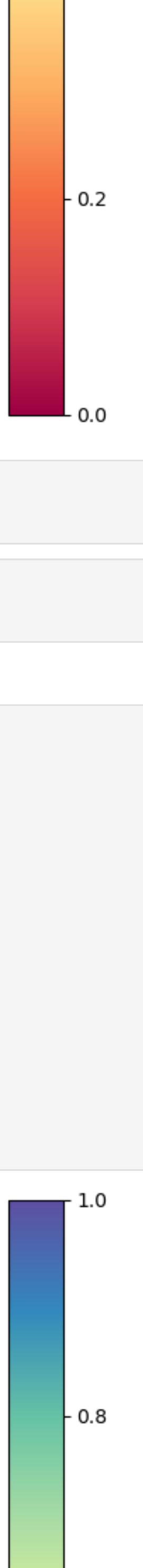
```
squarely.plot(size=1000)  
  
# Add a color bar  
colorbar = plt.colorbar()
```

The figure is a network graph illustrating the relationships between various hashtags. The nodes are represented by colored boxes, and the edges represent connections between them. The hashtags are categorized into several groups:

- Financial and Resource Hashtags:** #funding
- Methodological Hashtags:** #discovery, #methods, #workload, #methodology, #problem, #research, #specialisation, #workshop
- Learning and Practice Hashtags:** #learning, #practice, #review, #values
- Collaborative and Admin Hashtags:** #collaboration, #admin, #limitation, #working
- Intersectional and Specific Hashtags:** #intersection, #PhD, #responsibility, #suitability, #teaching, #technique

Connections are visible between nodes across these categories, indicating their interconnectedness in the dataset.

	#metaphors	#impact	#navigation	#organisational	#strength	#visualisation
#challenges						
	#sharing	#time	#common_goal	#connections	#ethics	



	#funding	#discovery	#methods	#working	#difference
#funding					
#discovery					
#methods					
#working					
#difference					

#collaboration	#admin	#strength
High	Low	High

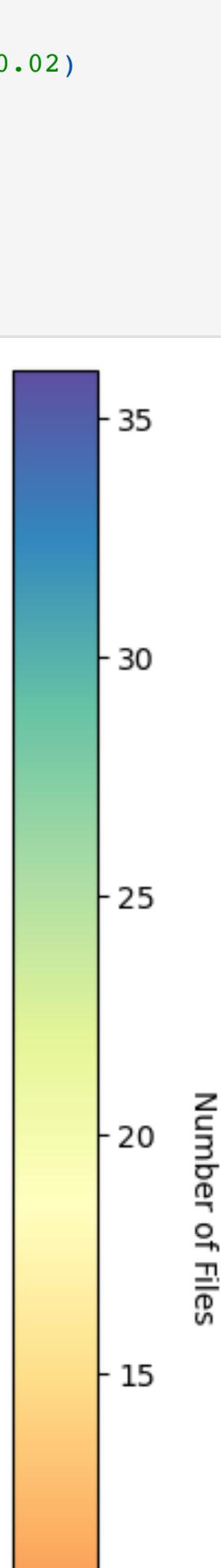
1

#connections

The figure is a treemap visualization. It consists of a large purple rectangle at the top left, labeled '#understanding'. To its right are five smaller rectangles of decreasing size: #communication (yellow), #crosscampus (light yellow), #sharing (pale yellow), #time (pale yellow), and #common_goal (orange). Below these rectangles is a white area containing Python code for generating the treemap.

```
# Create a new labels list with labels for categories with numfiles > 1
labels = [tag if num > 1 else '' for tag, num in zip(tags, numfiles)]

# Create a treemap with the new labels
plt.figure(figsize=(15, 10)) # makes the figure larger
squarify.plot(sizes=norm_numfiles, label=labels, alpha=.8, color=colors, edgecolor='white')
```



A solid purple rectangle is located in the bottom-left corner of the slide, extending from approximately [128, 907] to [450, 960]. It serves as a visual element to separate the main content from the footer area.

#understanding	#communication	#crosscampus	#sharing	#time	#common_goal
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```
In [73]: # Create a dictionary where the keys are the tag
tag_dict = {tag: num for tag, num in zip(tags, n)}
```

```
# Create a word cloud object and generate a word cloud
wordcloud = WordCloud(width=800, height=400, background_color='white')
wordcloud.generate_from_frequencies(tag_dict)

<wordcloud.wordcloud.WordCloud at 0x7f79103d0790>

# Display the generated word cloud
plt.figure(figsize=(12, 8))
plt.imshow(wordcloud, interpolation='bilinear')
plt.axis('off')
```

#co