Throwing Shade
The ASU Campus needs more trees, shade covering, and water misters

The Problem:
• Campus is Hot
• Chronic Heat Stress (above 85°F) is bad for humans
• There are not enough shaded areas on campus

People are more likely to go outside when shade is provided:

<table>
<thead>
<tr>
<th></th>
<th>First Choice</th>
<th>Second Choice</th>
<th>Third Choice</th>
<th>Not Needed</th>
</tr>
</thead>
<tbody>
<tr>
<td>Very Likely</td>
<td>45%</td>
<td>41%</td>
<td>37%</td>
<td>2%</td>
</tr>
<tr>
<td>Somewhat Likely</td>
<td>41%</td>
<td>34%</td>
<td>33%</td>
<td>7%</td>
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<td>Neutral</td>
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<td>2%</td>
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<tr>
<td>Somewhat Unlikely</td>
<td>2%</td>
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</tbody>
</table>

Majority of people prefer Shade Structures over Trees and Water misters as new heat-reducing options on Tempe Campus:

The Solution:
• Install More Shade Covers
• Install Water Misters
• Plant more Trees

In 2020 there were 144 days over 100 degrees

“If approximately 85°F ET causes a disruption in thermal homeostasis in adults (Hancock, 1986), indicating that exposure to chronic heat stress has real-world implications because many environments (particularly tropical and desert) exceed this threshold on a daily basis at least several months per year”

References:
• Data from a survey of ASU community members 3/2021
• https://www.abc15.com/news/state/phoenix-breaks-record-hits-144-days-of-100%..
• https://www.skincancer.org/skin-cancer-information/skin-cancer-facts/
• 1 in 5 Americans develop skin cancer before the age of 70

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