

Las Nuevas Herramientas de Gestión de la Información Electrónica y la Medición de Impacto

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Nuevas herramientas de medición de impacto bibliográfico

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- Altmetrics – Article Level Metrics
- Es una propuesta alternativa para medir el factor de impacto de una publicación
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Estado actual de Medición Bibliográfica

Elastic ice shells of synchronous moons: Implications for cracks on Europa and non-synchronous rotation of Titan

Peter M. Goldreich^{a,b}, Jonathan L. Mitchell^{a,b}

Abstract

A number of synchronous moons are thought to harbor water oceans beneath their outer ice shells. A subsurface ocean frictionally decouples the shell from the interior. This has led to proposals that a weak tidal or atmospheric torque might cause the shell to rotate differentially with respect to the synchronously rotating interior. Applications along these lines have been made to Europa and Titan. However, the shell is coupled to the ocean by an elastic torque. As a result of centrifugal and tidal forces, the ocean would assume an ellipsoidal shape with its long axis aligned toward the parent planet. Any displacement of the shell away from its equilibrium position would induce strains thereby increasing its elastic energy and giving rise to an elastic restoring torque. In the investigation reported on here, the elastic torque is compared with the tidal torque acting on Europa and the atmospheric torque acting on Titan.

References

Anderson, J. D., Schubert, G., Jacobson, R. A., Lau, E. L., Moore, W. B., Spangren, W. L., Sep. 1998. Europa's Differentiated Internal Structure: Inferences from Euro-Clayton. *Earth and Planetary Science Letters* 167, 281-297.

Greenberg, R., Greenberg, R., Hoppa, G., Helfenstein, P., McEwan, A., Pappalardo, R., Tufts, B., Ockert-Bell, M., Sullivan, R., Greeley, R., Belton, M. J. S., Denk, T., Clark, B. E., Burns, J., Veverka, J., Jan. 1998. Evidence for non-synchronous rotation of Europa. *Nature* 391, 368.

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Greeley, R., Sullivan, R., Coon, M. D., Geissler, P. E., Tufts, B. R., Head, J. W., Pappalardo, R. T., Moore, J. M., Sep. 1998. Terrestrial Sea Ice Morphology: Clues to Europa's Interior. *Journal of Geophysical Research* 103, 207-219.

Greenberg, R., Hoppa, G. V., Tufts, B. R., Geissler, P., Riley, J., Kadel, S., Oct. 1999. Chaos on Europa. *Icarus* 141, 263-286.

Greenberg, R., Weidenschilling, S. J., May 1984. How fast do Galilean satellites spin? *Journal of Geophysical Research* 89, 186-192.

Europa's Differentiated Internal Structure: Inferences from Four Galileo Encounters

J. D. Anderson, C. Schubert, R. A. Jacobson, E. L. Lau, W. B. Moore, W. L. Spangren

Abstract

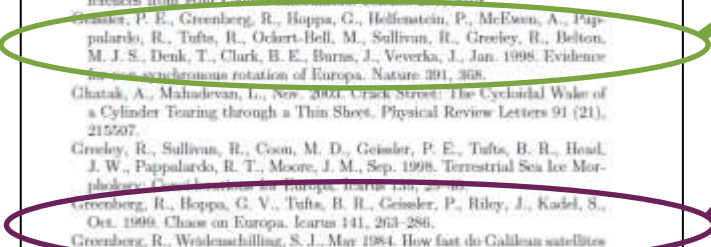
Europa's differentiated internal structure is inferred from the four Galileo encounters with the satellite. The Galileo spacecraft has provided the first direct measurements of Europa's gravity field. The Galileo gravity field is consistent with a differentiated structure consisting of a rigid outer shell and a liquid outer core. The Galileo gravity field is also consistent with a differentiated structure consisting of a rigid outer shell and a liquid outer core. The Galileo gravity field is also consistent with a differentiated structure consisting of a rigid outer shell and a liquid outer core. The Galileo gravity field is also consistent with a differentiated structure consisting of a rigid outer shell and a liquid outer core.

Terrestrial Sea Ice Morphology: Considerations for Europa

R. Greeley, M. J. S. Belton, G. V. Hoppa, J. W. Head, J. M. Moore, P. E. Geissler, B. R. Tufts, J. M. Moore, J. W. Head, J. M. Moore, P. E. Geissler, B. R. Tufts

Abstract

Terrestrial sea ice morphology is compared with the morphology of Europa's ice shell. The terrestrial sea ice morphology is compared with the morphology of Europa's ice shell. The terrestrial sea ice morphology is compared with the morphology of Europa's ice shell. The terrestrial sea ice morphology is compared with the morphology of Europa's ice shell.

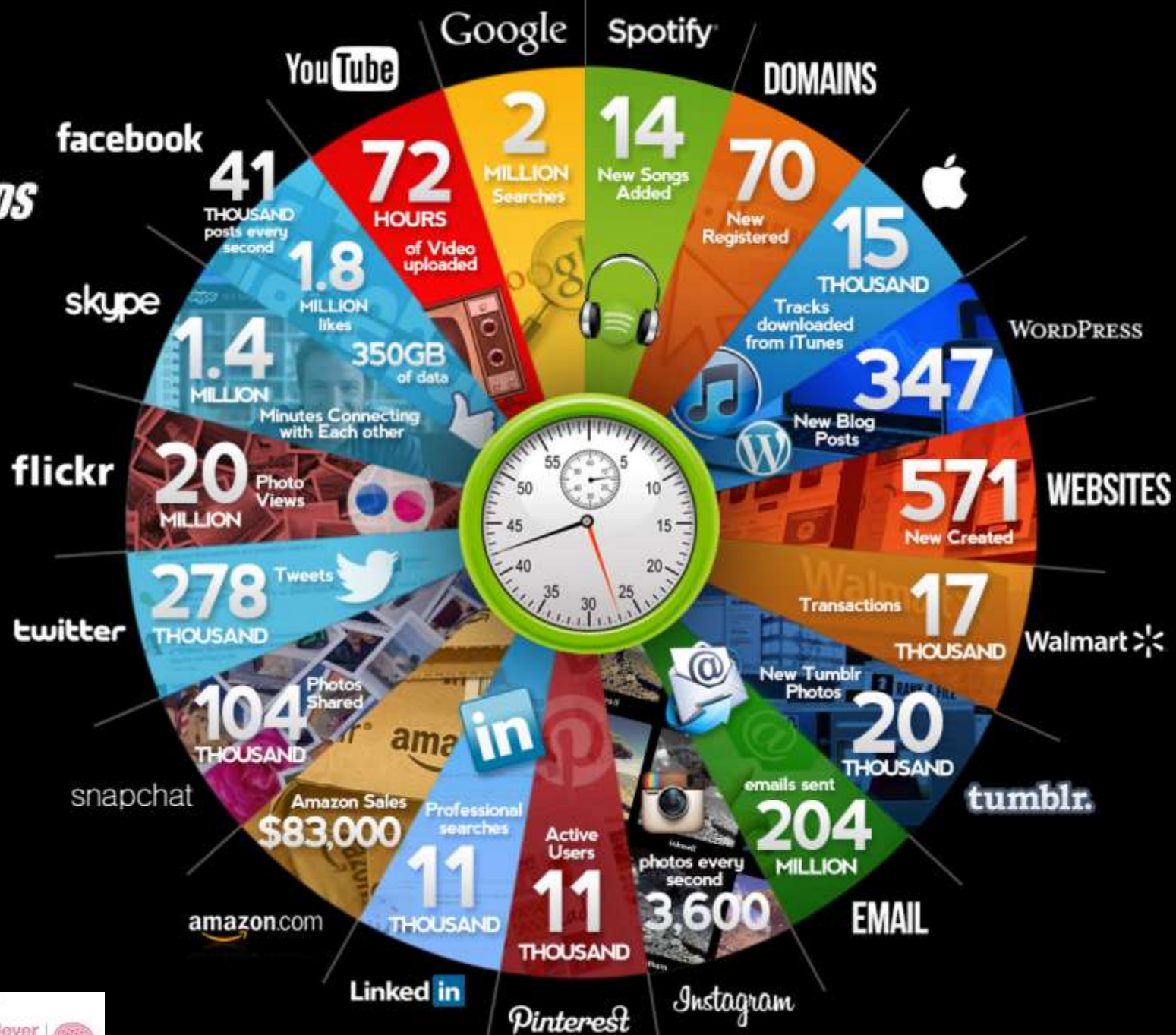




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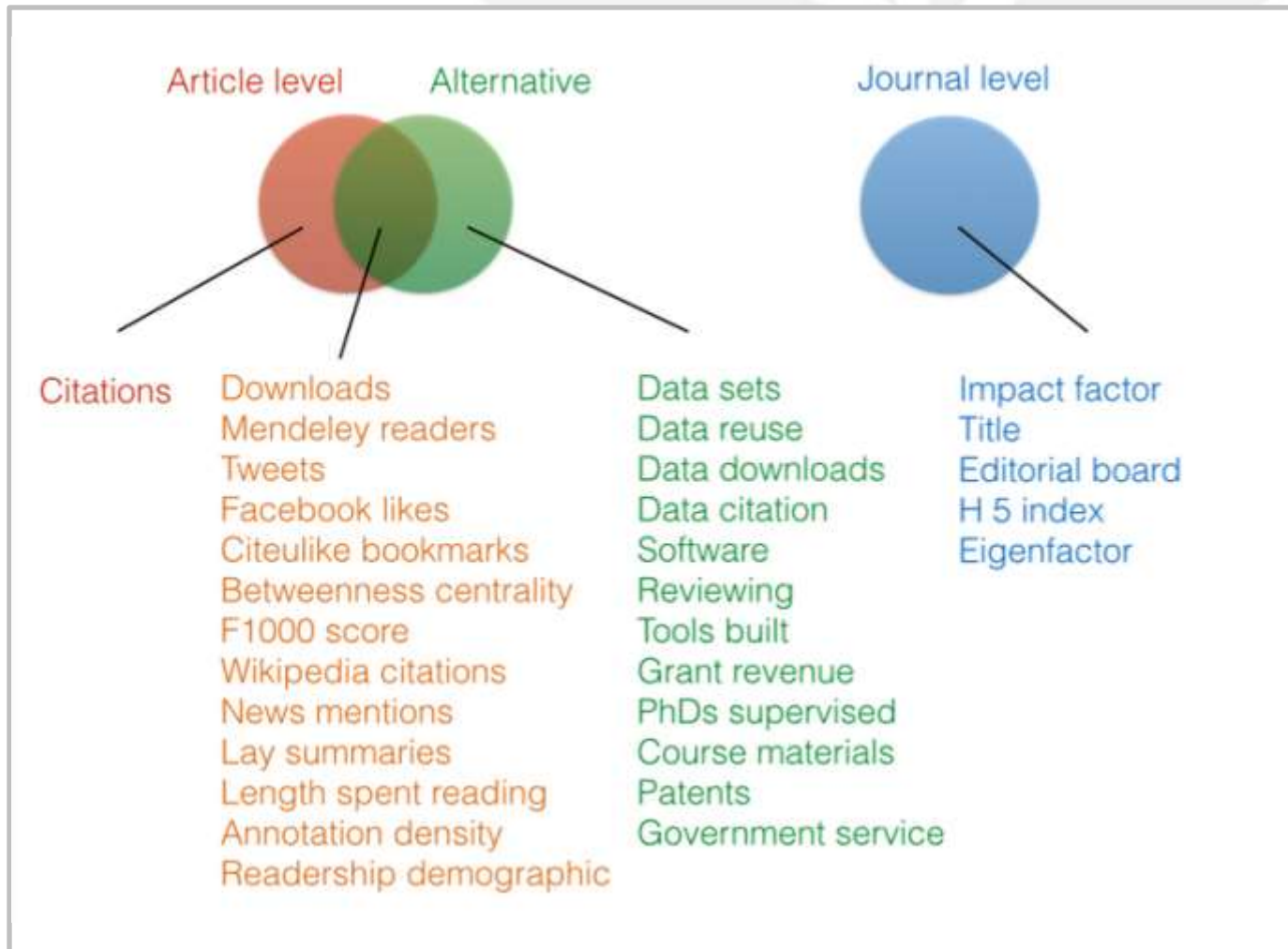
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Author(s): Nicholas D. Pyenson, Jeremy A. Goldbogen, A. Wayne Vogl, Gabor Szathmary, Richard L. Drake, Robert E. Shadwick

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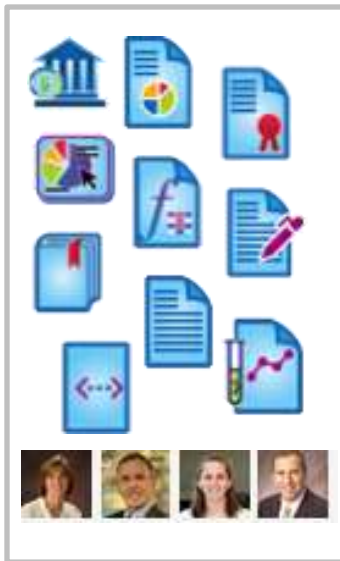
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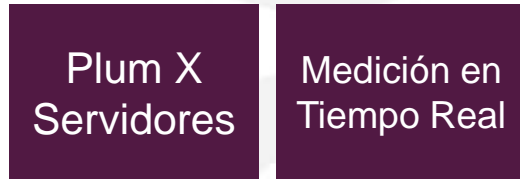
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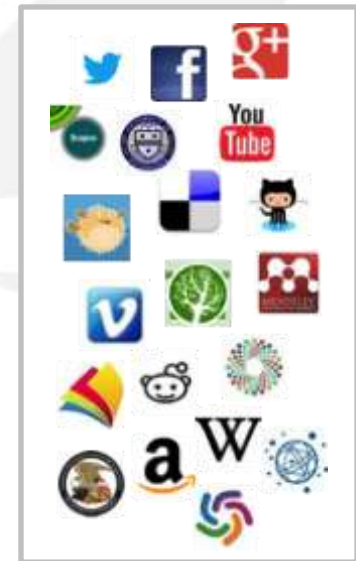
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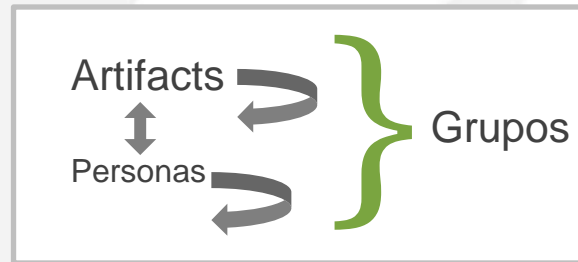
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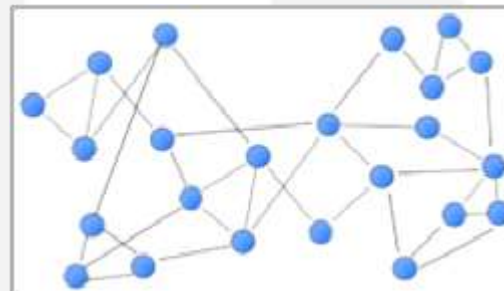


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An Adequately Robust Early TNF- α Response Is a Hallmark of Survival Following Trauma/Hemorrhage

Rajni Kanwar, Al Olsara, Andrea Torres, Patricia Palomo, Hernandez Goveas, Derek Bentley, Lisa Gradins, Sven Zerkow, Myung Ho Cho, Nathan, Nilsen Jostein, Shafiqul Rozaque, Gabe Chernoff, [...] Yoram Vodovotz [View all]

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An adequately robust early TNF- α response is a hallmark of survival following trauma/hemorrhage

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Abstract

BACKGROUND: The early response to trauma/hemorrhage (TH) results in complex interactions between local and systemic processes that generally culminate in either survival or death. We hypothesized that a robust early TNF- α response is a hallmark of survival following trauma/hemorrhage. We tested this hypothesis using a murine model of trauma/hemorrhage. Mice were subjected to a standardized protocol of trauma/hemorrhage and survival was determined at 24 hours post-trauma/hemorrhage. Mice were then divided into survivors and non-survivors. Gene expression profiles were compared between survivors and non-survivors using microarray technology. Survival was significantly higher in mice that had a robust early TNF- α response compared to mice that had a weak early TNF- α response. This suggests that a robust early TNF- α response is a hallmark of survival following trauma/hemorrhage. **CONCLUSIONS:** The early response to trauma/hemorrhage is a complex process that involves multiple pathways. A robust early TNF- α response is a hallmark of survival following trauma/hemorrhage. This finding may have implications for the development of new therapies for trauma/hemorrhage.

Keywords: Trauma/hemorrhage, TNF- α , survival, microarray, gene expression, mouse model.

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AN ADEQUATELY ROBUST EARLY TNF- α RESPONSE IS A HALLMARK OF SURVIVAL FOLLOWING TRAUMA/HEMORRHAGE.

Kanwar, Rajni et al. Olsara, Andrea Torres, Patricia Palomo, Hernandez Goveas, Derek Bentley, Lisa Gradins, Sven Zerkow, Myung Ho Cho, Nathan, Nilsen Jostein, Shafiqul Rozaque, Gabe Chernoff, [...] Yoram Vodovotz. *PLoS ONE*. 2017; 12(1): e0168492. DOI: 10.1371/journal.pone.0168492

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BACKGROUND: The early response to trauma/hemorrhage (TH) results in complex interactions between local and systemic processes that generally culminate in either survival or death. We hypothesized that a robust early TNF- α response is a hallmark of survival following trauma/hemorrhage. We tested this hypothesis using a murine model of trauma/hemorrhage. Mice were subjected to a standardized protocol of trauma/hemorrhage and survival was determined at 24 hours post-trauma/hemorrhage. Mice were then divided into survivors and non-survivors. Gene expression profiles were compared between survivors and non-survivors using microarray technology. Survival was significantly higher in mice that had a robust early TNF- α response compared to mice that had a weak early TNF- α response. This suggests that a robust early TNF- α response is a hallmark of survival following trauma/hemorrhage. **CONCLUSIONS:** The early response to trauma/hemorrhage is a complex process that involves multiple pathways. A robust early TNF- α response is a hallmark of survival following trauma/hemorrhage. This finding may have implications for the development of new therapies for trauma/hemorrhage.

Keywords: Trauma/hemorrhage, TNF- α , survival, microarray, gene expression, mouse model.

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Abstract

Brain-computer interface (BCI) technology aims to help individuals with disability to control assistive devices and reanimate paralyzed limbs. Our study investigated the feasibility of an electrocorticography (ECoG)-based BCI system in an individual with tetraplegia caused by C4 level spinal cord injury. ECoG signals were recorded with a high-density 32-electrode grid over the hand and arm area of the left sensorimotor cortex. The participant was able to voluntarily activate his sensorimotor cortex using attempted movements, with distinct cortical activity patterns for different segments of the upper limb. Using only brain activity, the participant achieved robust control of 3D cursor movement. The ECoG grid was explanted 28 days post-implantation with no adverse effect. This study demonstrates that ECoG signals recorded from the sensorimotor cortex can be used for real-time device control in paralyzed individuals.

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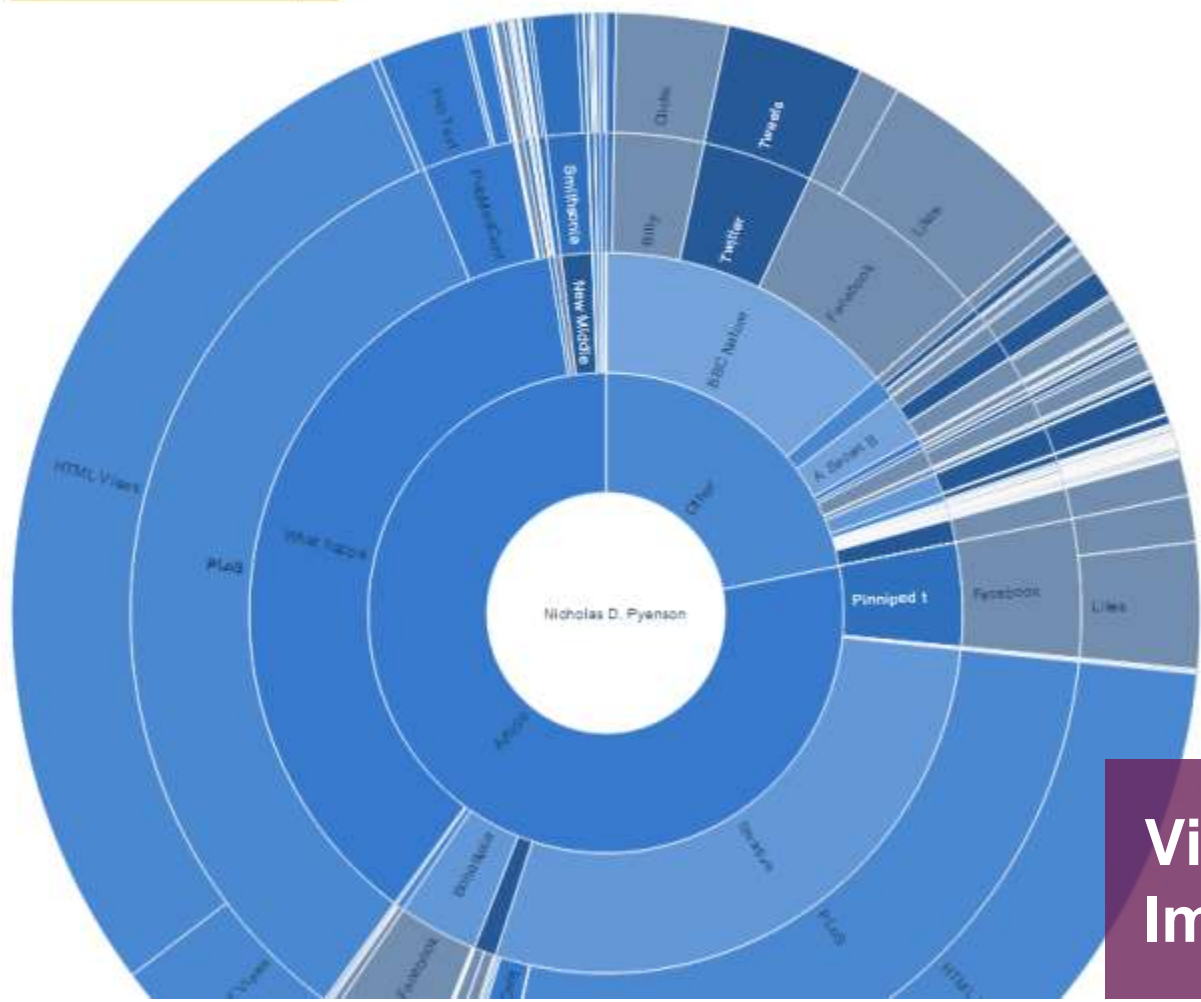
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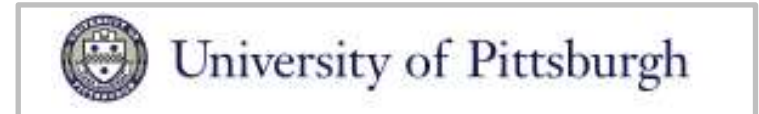
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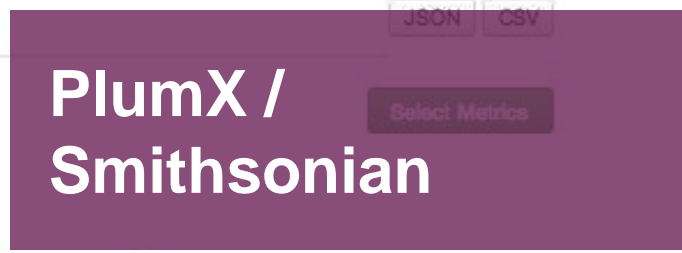
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