

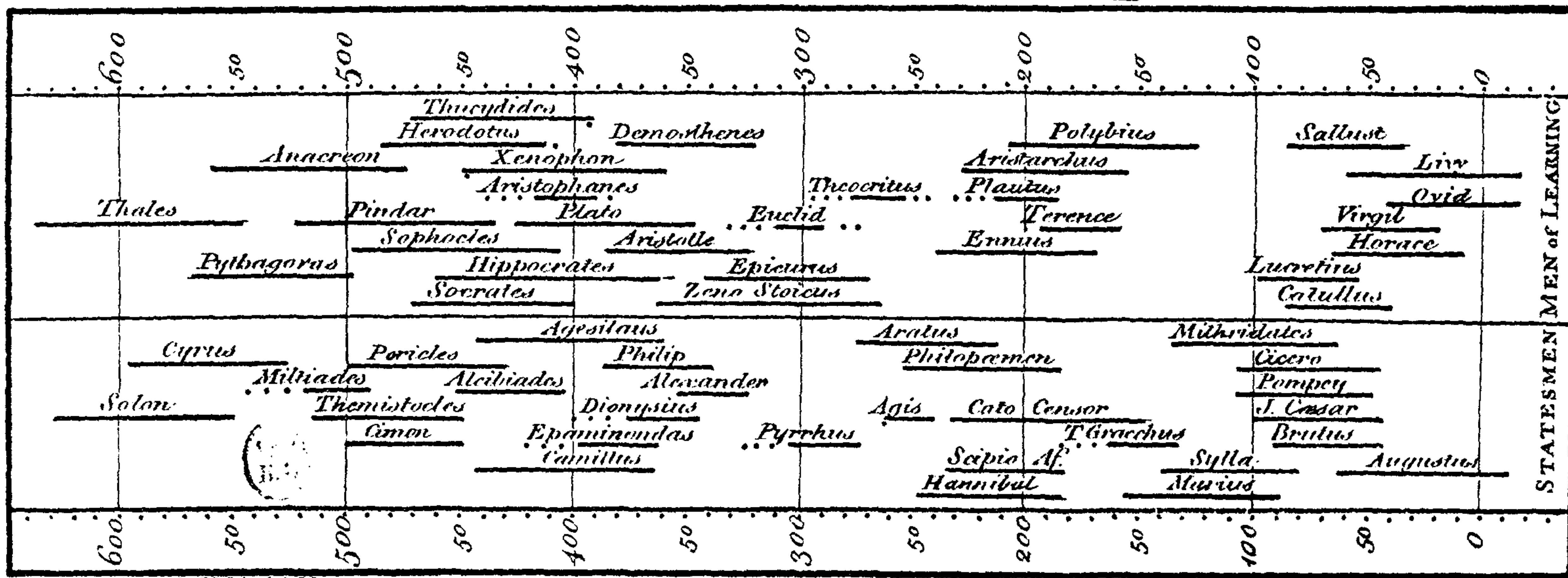


# Expressive Storytelling with Timelines

Lightning Talk @ Dagstuhl Seminar 16061: Data-Driven Storytelling

by **Matt Brehmer**, Bongshin Lee, Benjamin Bach, Nathalie Henry Riche, & Tamara Munzner.

# A Specimen of a Chart of Biography.

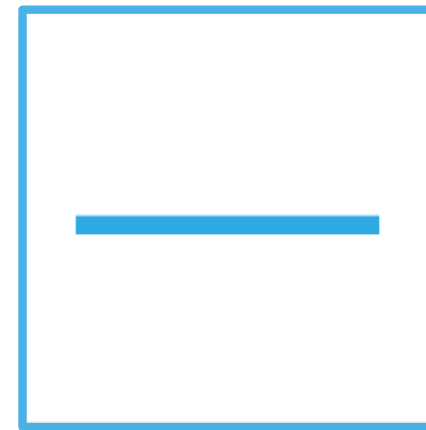


J. Priestley L.L.D. F.R.S. invt. et del.

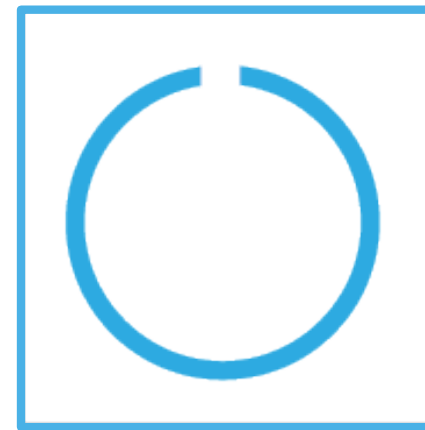
Joseph Priestley's "A Chart of Biography" (1769)

# Timeline storytelling design space

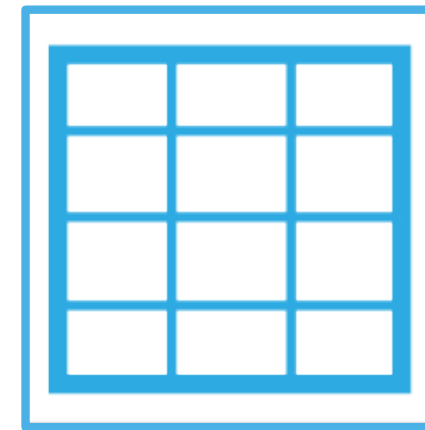
## Representation



Linear



Radial



Grid

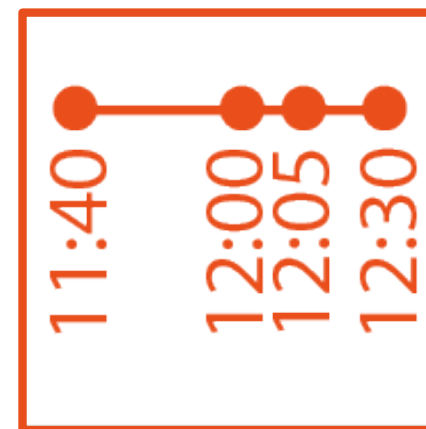


Spiral

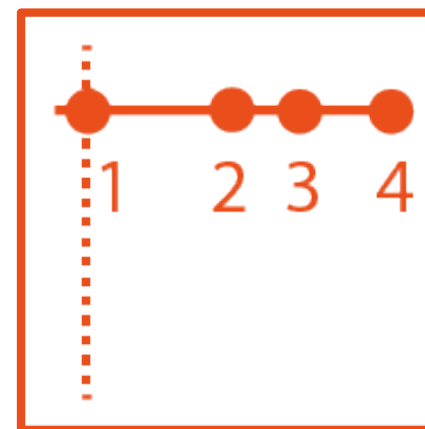


Arbitrary

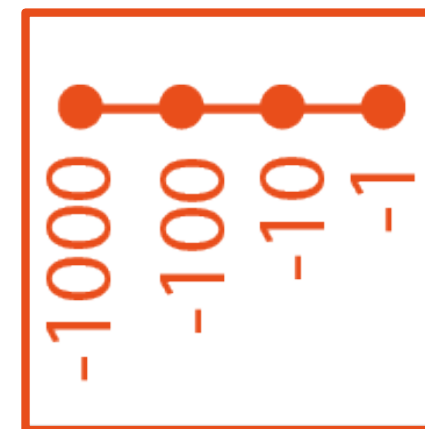
## Scale



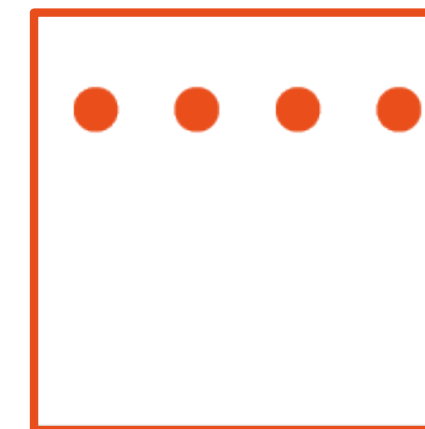
Chrono-  
logical



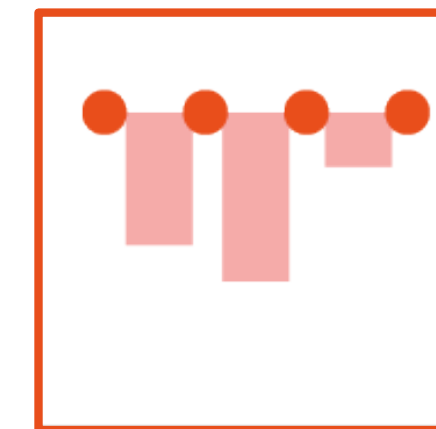
Relative



Logarithmic



Sequential



Sequential +  
Interim  
Duration

## Layout



Unified  
(single  
timeline)



Faceted  
(multiple  
timelines)



Segmented  
timeline



Faceted +  
Segmented

# Timeline narrative points

**Chronology & duration of events**

**Types of events**

**Number & distribution of events**

**Chronological range**

**Sequences of events**

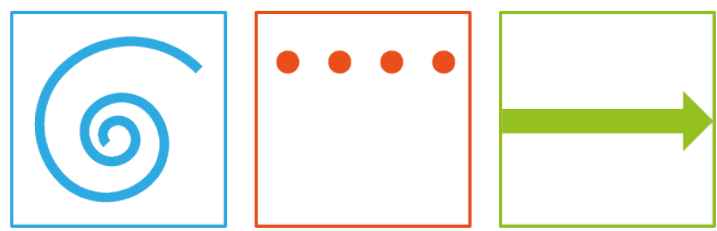
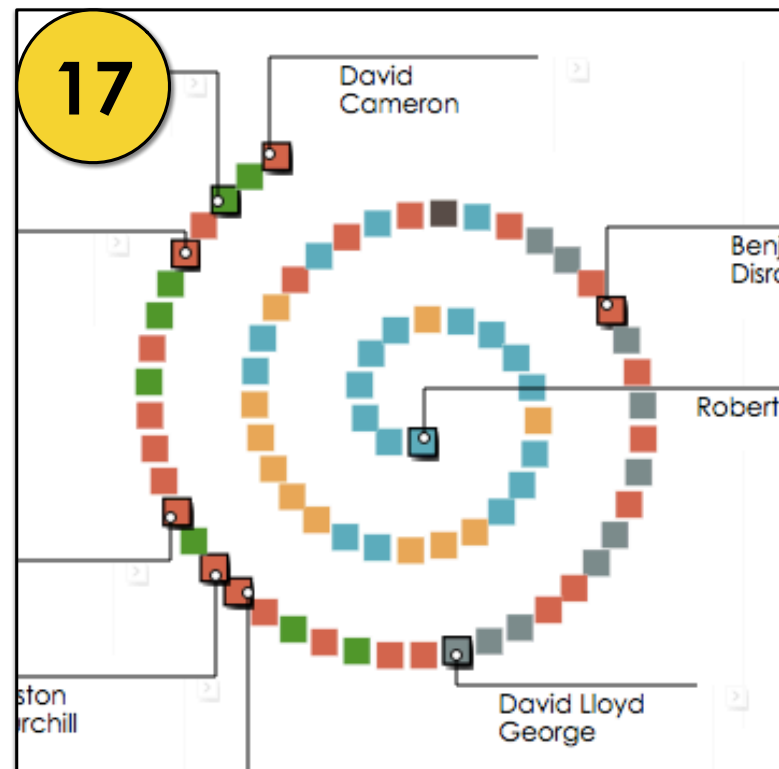
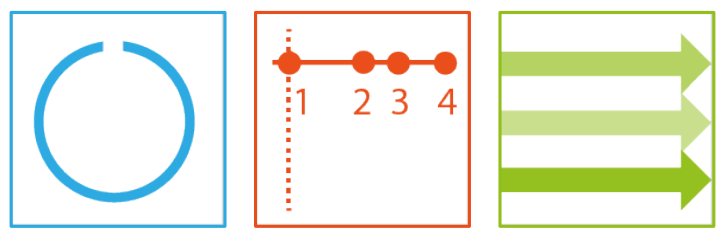
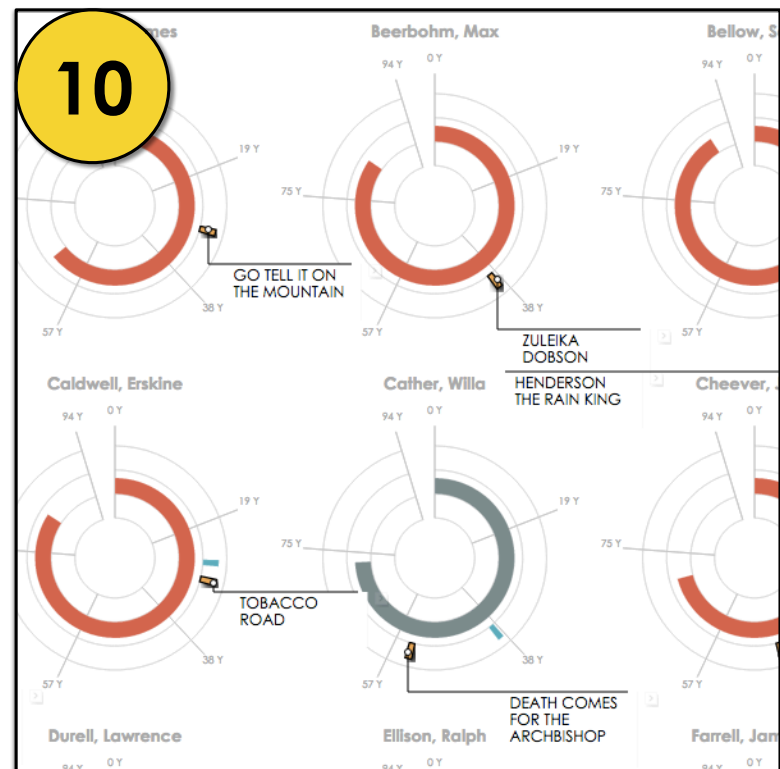
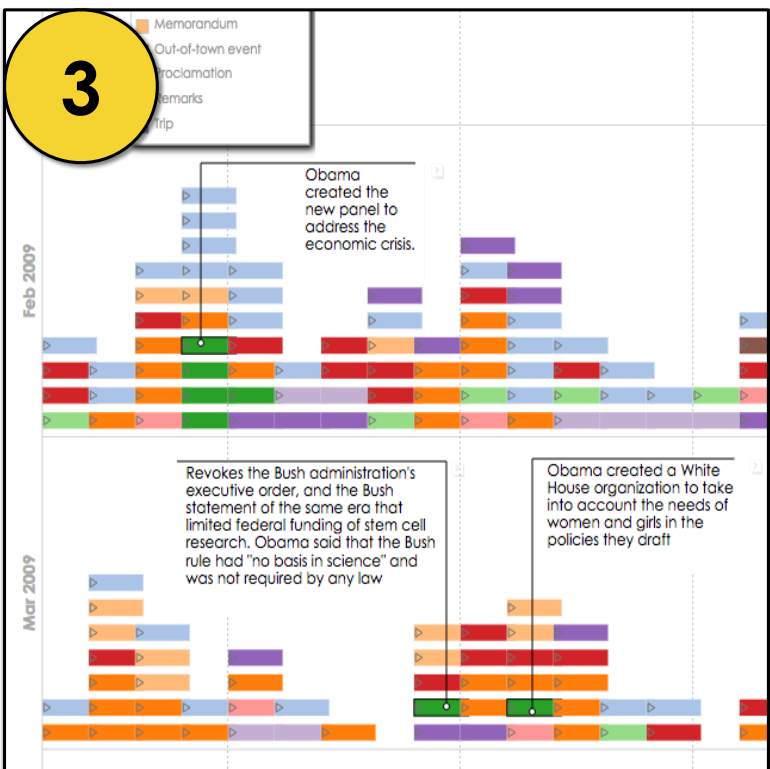
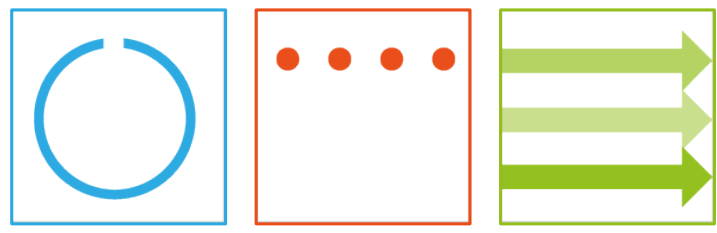
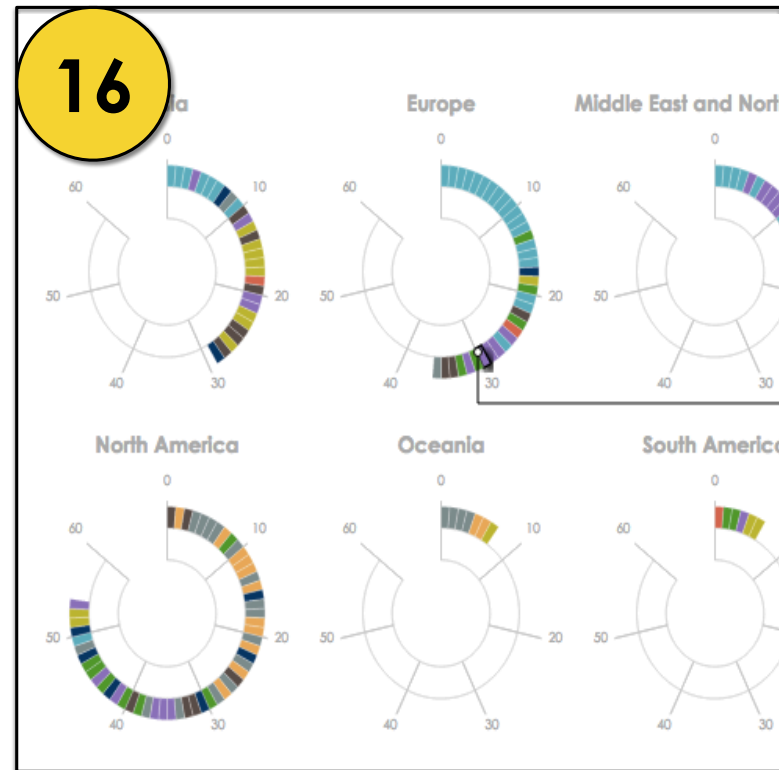
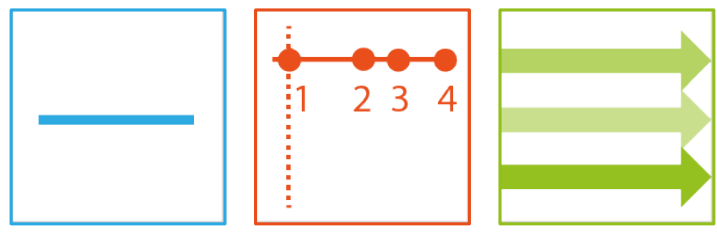
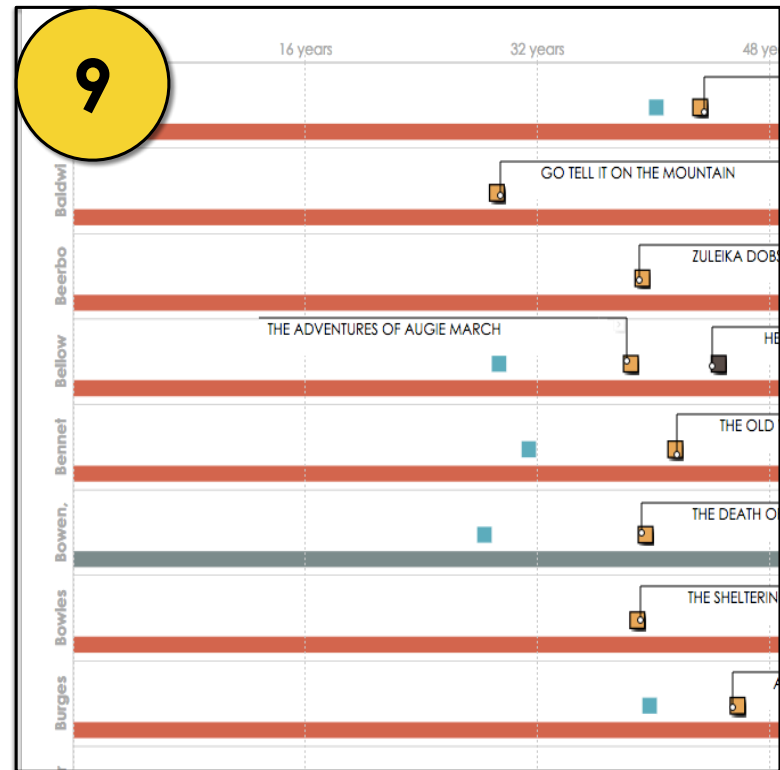
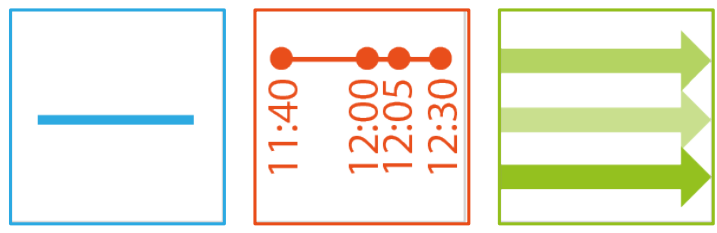
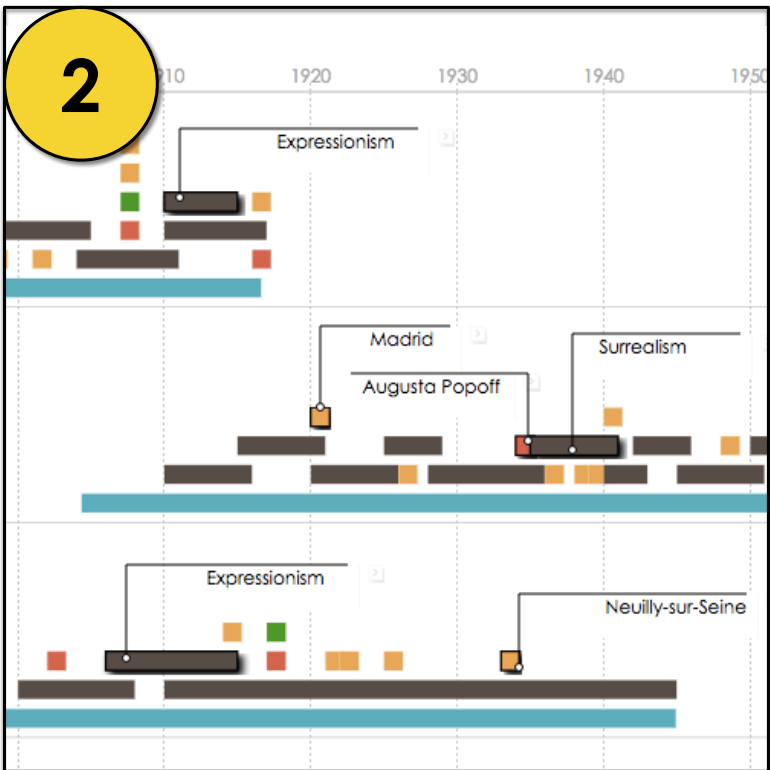
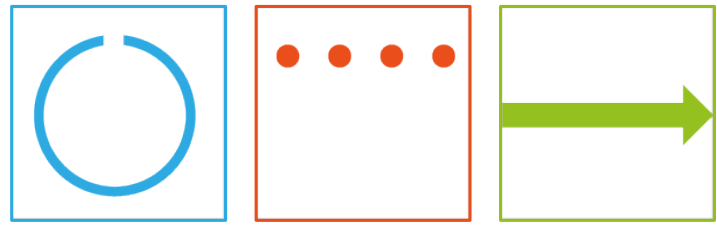
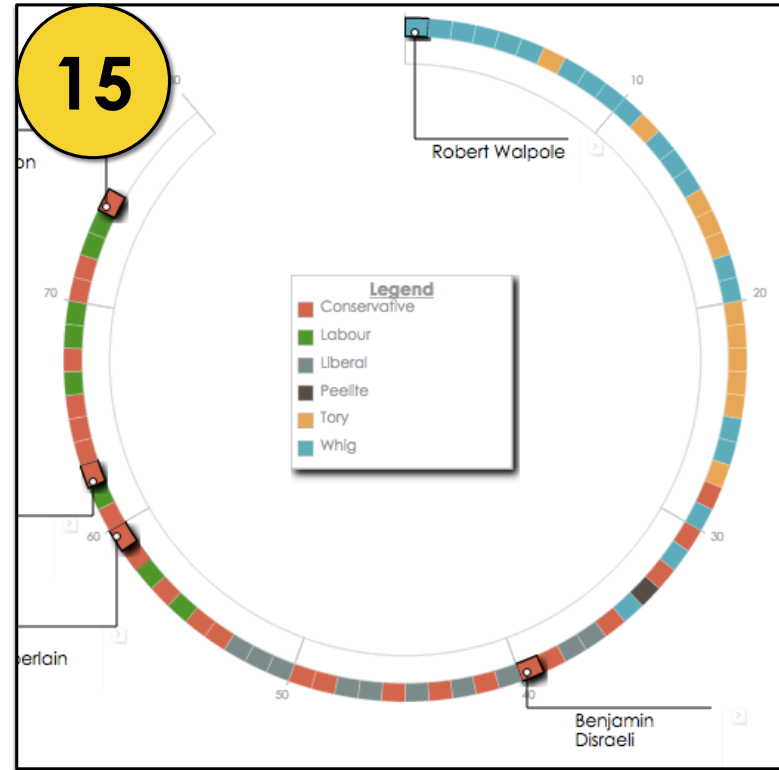
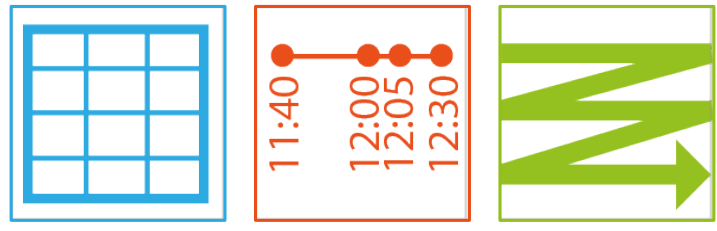
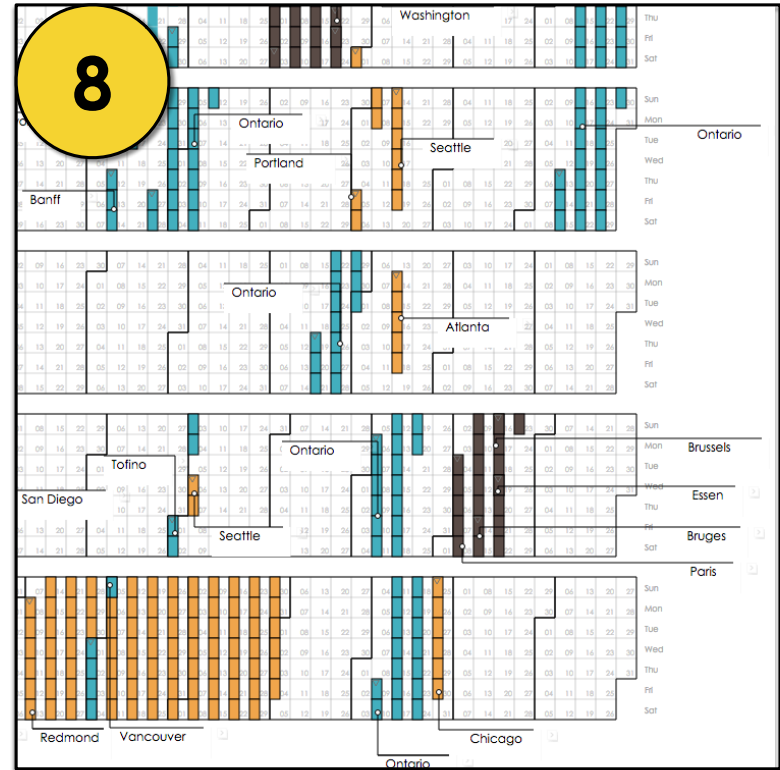
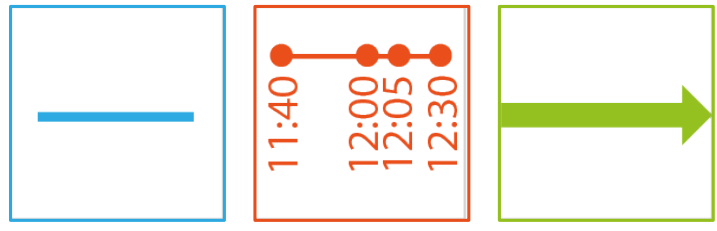
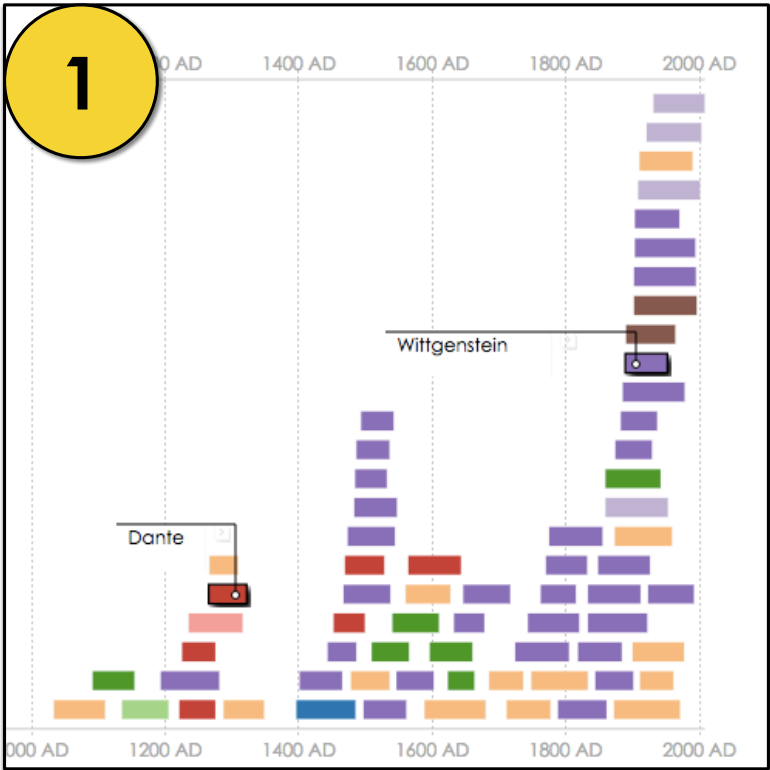
**Periodic repetition (and deviations)**

**Daily, seasonal cycles**

**Synchronicity / co-occurrences**

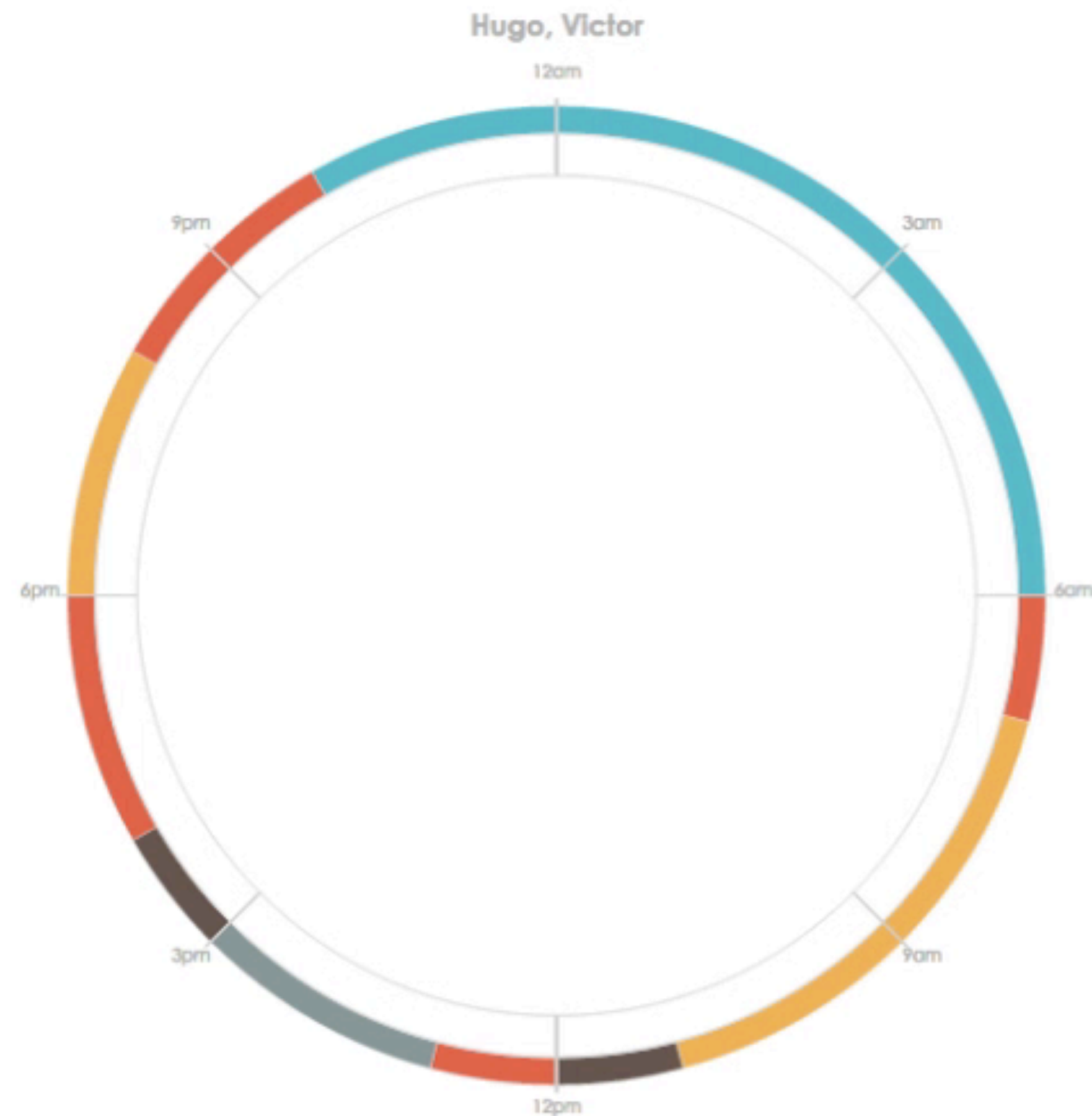


# 20 recommended timeline designs



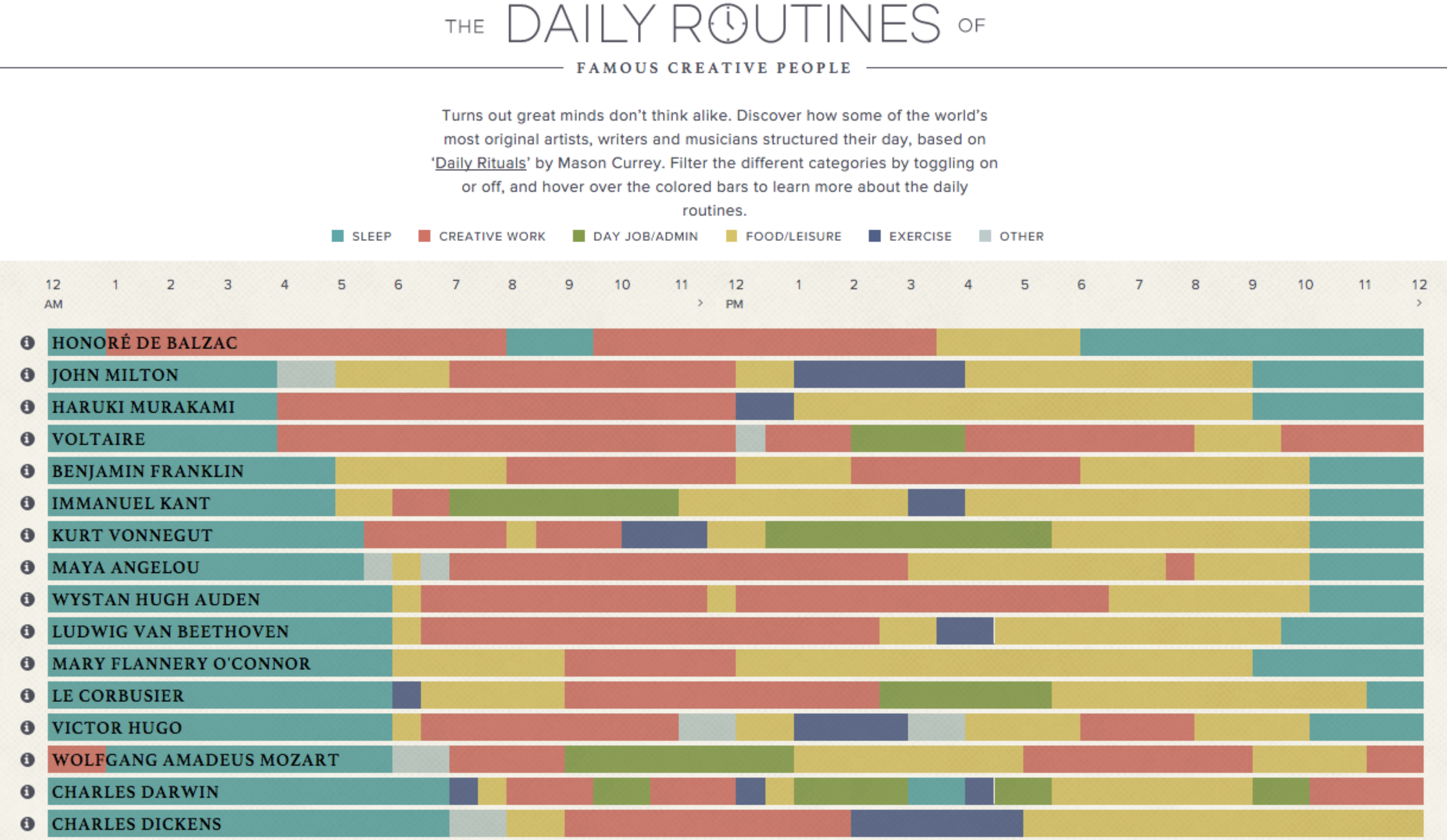
# Timeline story: Routines of creative people

Consider the daily routine of Victor Hugo, French poet, novelist, and dramatist (1802 – 1885)





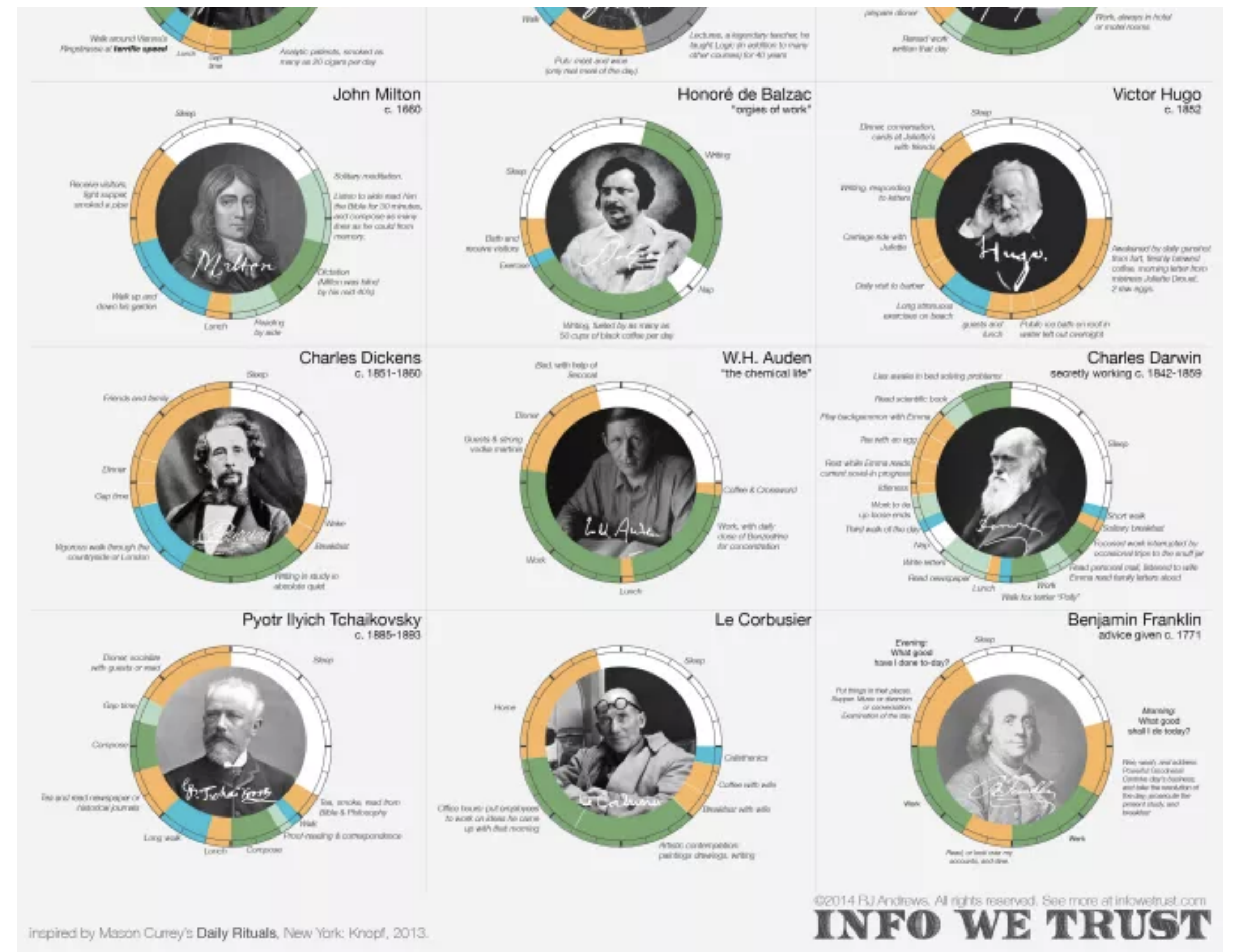
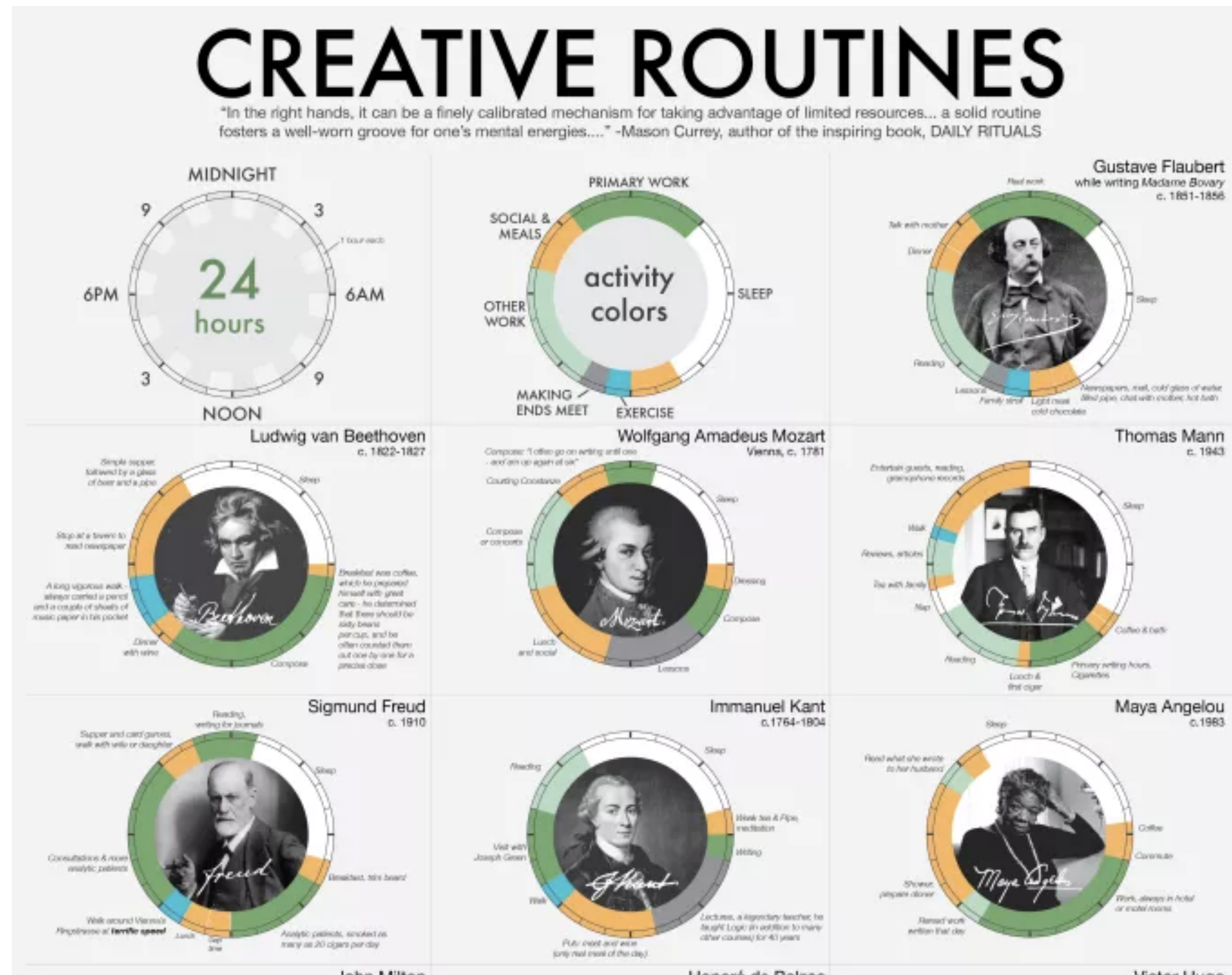
# Infographic: Routines of creative people



Podio. <https://podio.com/site/creative-routines>



# Infographic: Routines of creative people



RJ Andrews (2014). <http://www.infowetrust.com/creative-routines/>