**iVALET – Mobile Visual Analytics Law Enforcement Toolkit**

**Mission Need**

Modern datasets are often massive and complex, making it difficult for analysts and decision makers to extract relevant information for making effective decisions. The mobile Visual Analytics Law Enforcement Toolkit (iVALET) provides linked spatiotemporal views that allow users to visualize criminal, traffic and civil (CTC) incidents over geo-space and time. Developed for the mobile platform, iVALET provides on-the-go support to law enforcement officials for determining the risks associated with CTC incident levels within their areas of operation. iVALET also provides enhanced analytical tools including risk assessment capabilities that factor in the user’s spatial and temporal context to enable him/her to identify regions of potential high risk at any specified location and time.

**Data Layers:**
- Criminal, Traffic, Civil
- GIS
- Law beats
- Bus stops
- Bus routes

**Collaborators:**
- Purdue Police
- West Lafayette Police
- Lafayette Police
- Tippecanoe County Sheriff
- Indianapolis Police

**Funded by:**
U.S. Department of Homeland Security, Command, Control and Interoperability Center of Excellence

The Mobile Visual Analytics Law Enforcement Toolkit (iVALET) is seen here where the user is exploring crime reports for Lafayette / West Lafayette, IN using an iPad (right) and iPhones (left). The heatmap signifies the areas with higher crime rates and the boundaries on the map are police law beats. Also seen in this image are the 24-hour clock view (left, inset) and the interactive time series graph view (right, bottom).

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