

Event Dispatcher

Container (Panel)

Web Components

Data Service

Data Source

Sync State

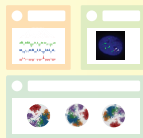
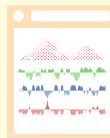
Cross domain

Nucleome Bridge Extension

Cross tab

Post Message
&
Broadcast Channel

Within tab

Event Hub
from Golden layout

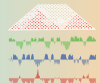
Nucleome Browser Web Site

Web Site in
Different DomainExternal
Web Sites

DNA 3D Structure



Genome Browser



OMERO.iviewer

Customized Data
Web ComponentUSCS
Genome Browser
WashU
Epigenome
Browser

Web Server

NucleServer

Cross-platform
binary executableOMERO
Docker Compose⁺
Genomic
coordinates encoded

Web Server

TrackHub
DataHub

DNA 3D Structure

Nucle3D format

Genomic Data

bigwig
bigbed
.hic
tabix
format

Imaging

Over 140 formats

Other Model
Data From User

Customized format

Genomic Data

Communicate

Instantiate

Render

Make Queryable