NewsDraw

News-on-a-Wire

NewsLine

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NewsDraw

A NeWS based graphical object editor

NewsDraw Statistics

2000 lines of C
500 lines of NeWS

160 C procedures (71 global calls)

CPS for client/server interaction
NeWS Lite toolkit for User Interface
PostScript imaging model

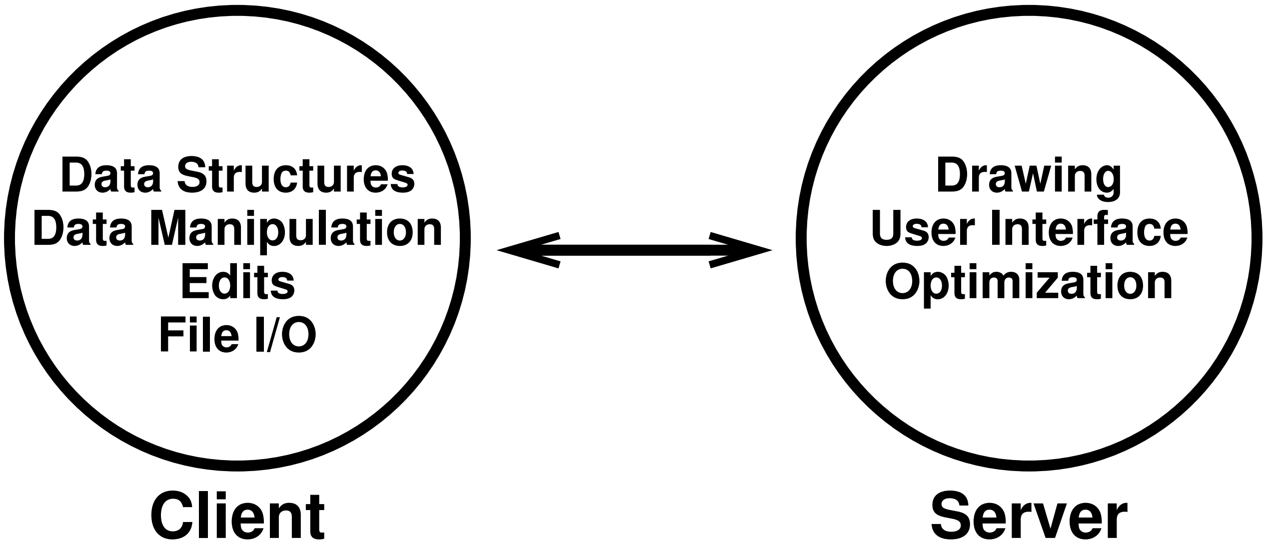
NewsDraw Goals

- Good use of client/server model
- Minimize client/server traffic
- Functionality: read/write/print/etc.
- Simple and easy to understand
- Portability through C and CPS
- Good object oriented coding style
- Use power of NeWS imaging model
- Low demands on server

NewsDraw Non-Goals

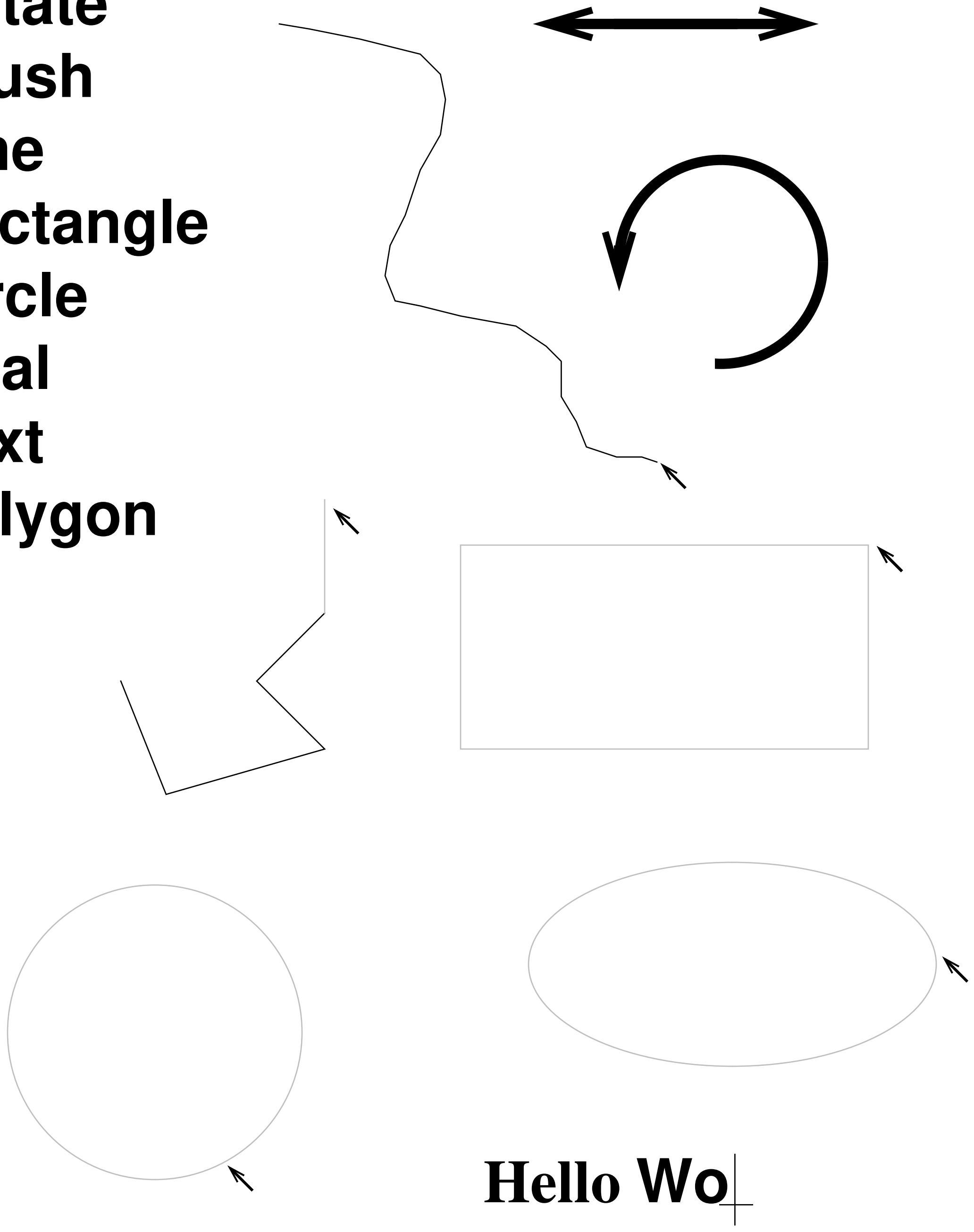
- Not a clean example of NeWS code
- Not in C++

NewsDraw Client/Server Partition



NewsDraw Modes

- Move
- Rotate
- Brush
- Line
- Rectangle
- Circle
- Oval
- Text
- Polygon

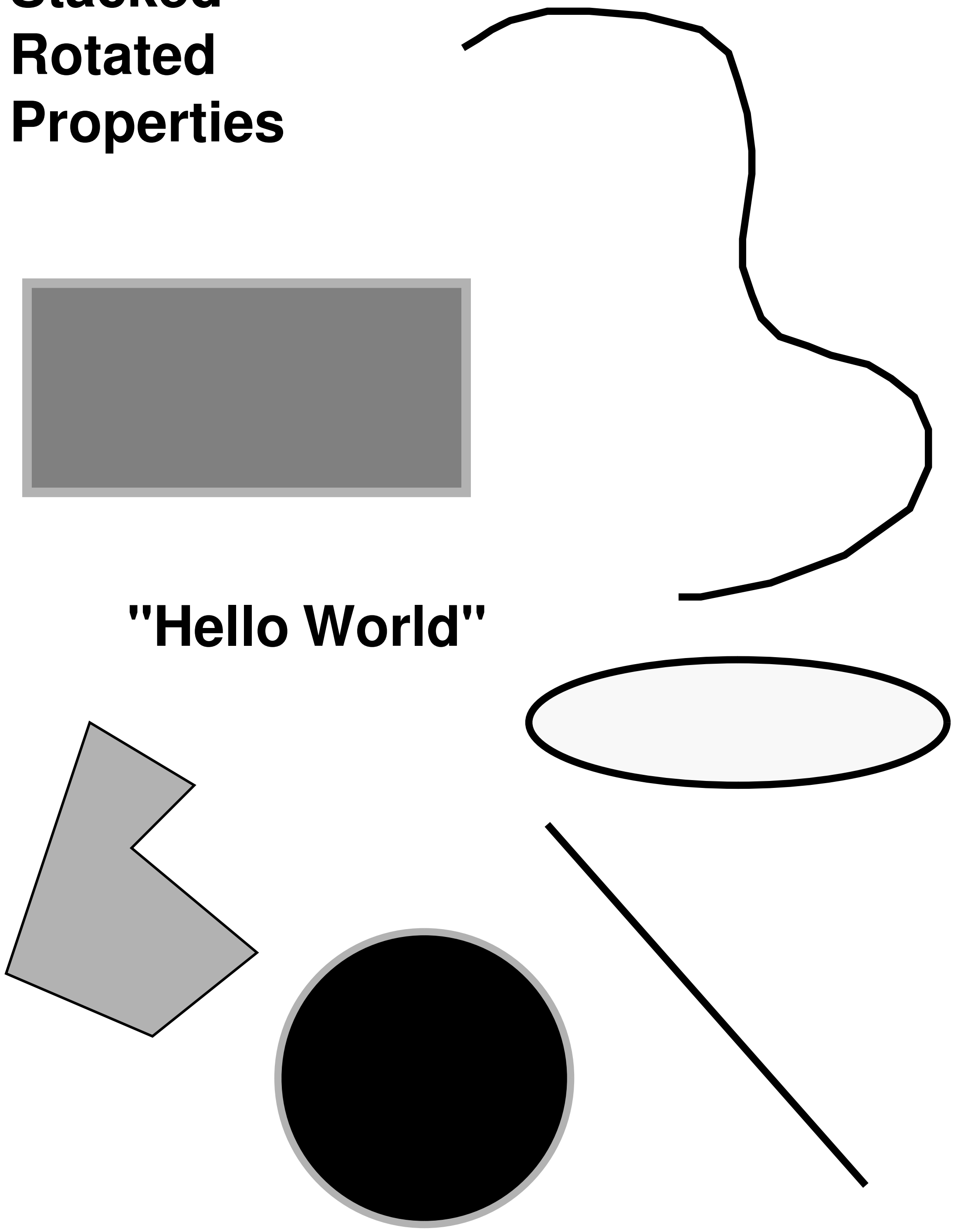


NewsDraw Events

- Begin Mode
- End Mode
- Damage
- Menu Action
- Select Mouse Down
- Adjust Mouse Down
- Keystroke
- Reply Received

NewsDraw Objects

- Stacked
- Rotated
- Properties



NewsDraw Object Methods

- Holder
- New
- Draw
- Print
- Read
- Write

NewsDraw Futures

- Add features
- C++
- NDE

NeWS-on-a-Wire

and

NewsLine

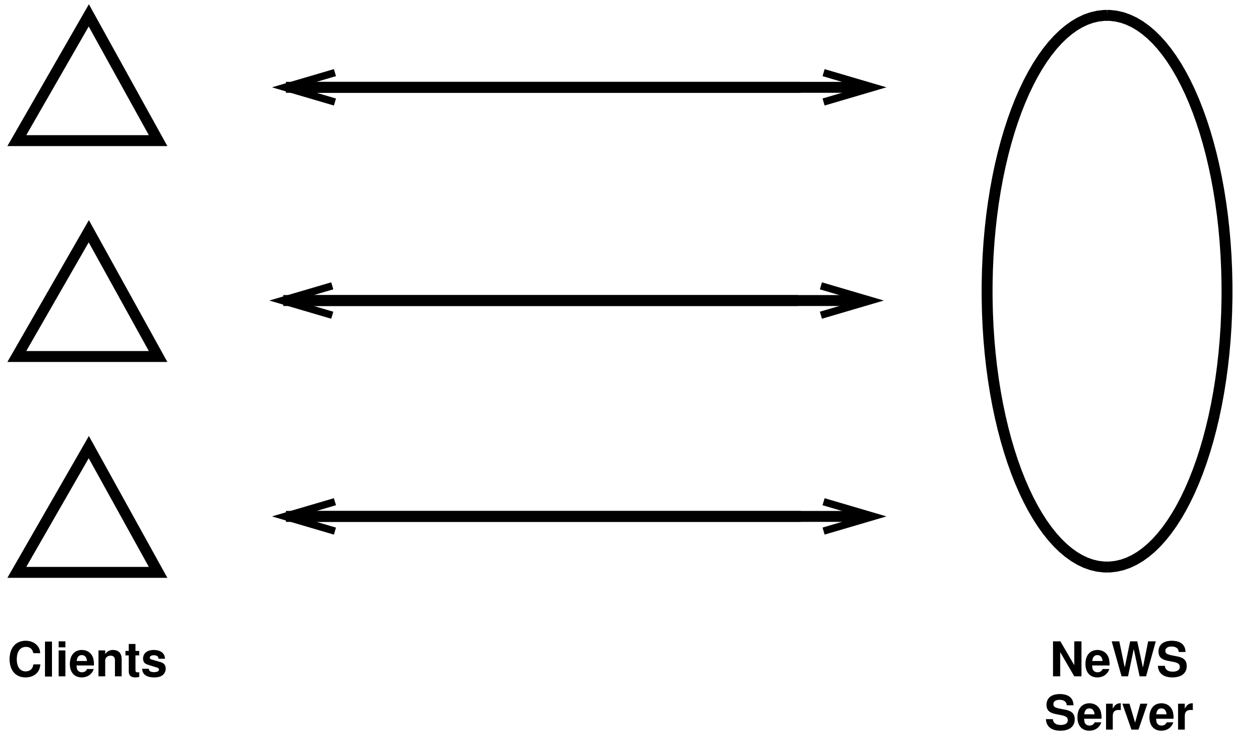
NeWS-on-a-wire

- Use networking power of NeWS
- Browse remote databases
- Bring desktop home
- Develop programs remotely

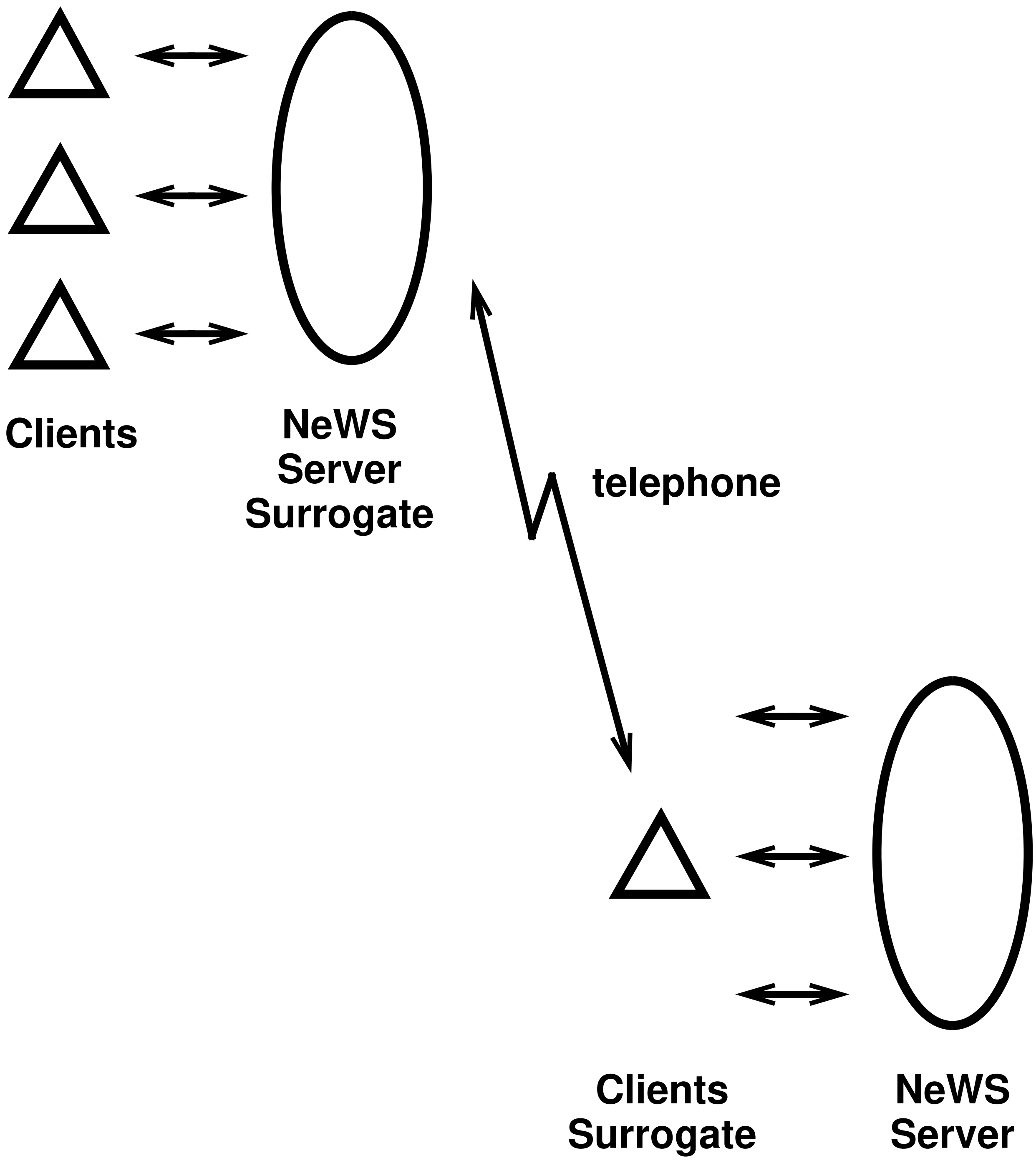
Compare to X-on-a-wire

- More responsive User Interface
- Less network performance sensitive

NeWS Client/Server Relationship



NeWS-on-a-wire Client/Server Relationship



NewsLine

- Exploiting News-on-a-wire
- Browse PostScript files remotely
- Print items of interest locally

Prologue
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Trailer

PostScript file format

NewsLine futures

- Porting Guide, Catalyst Catalog
- Database Browsing
- Information Navigation
- Bulletin Board