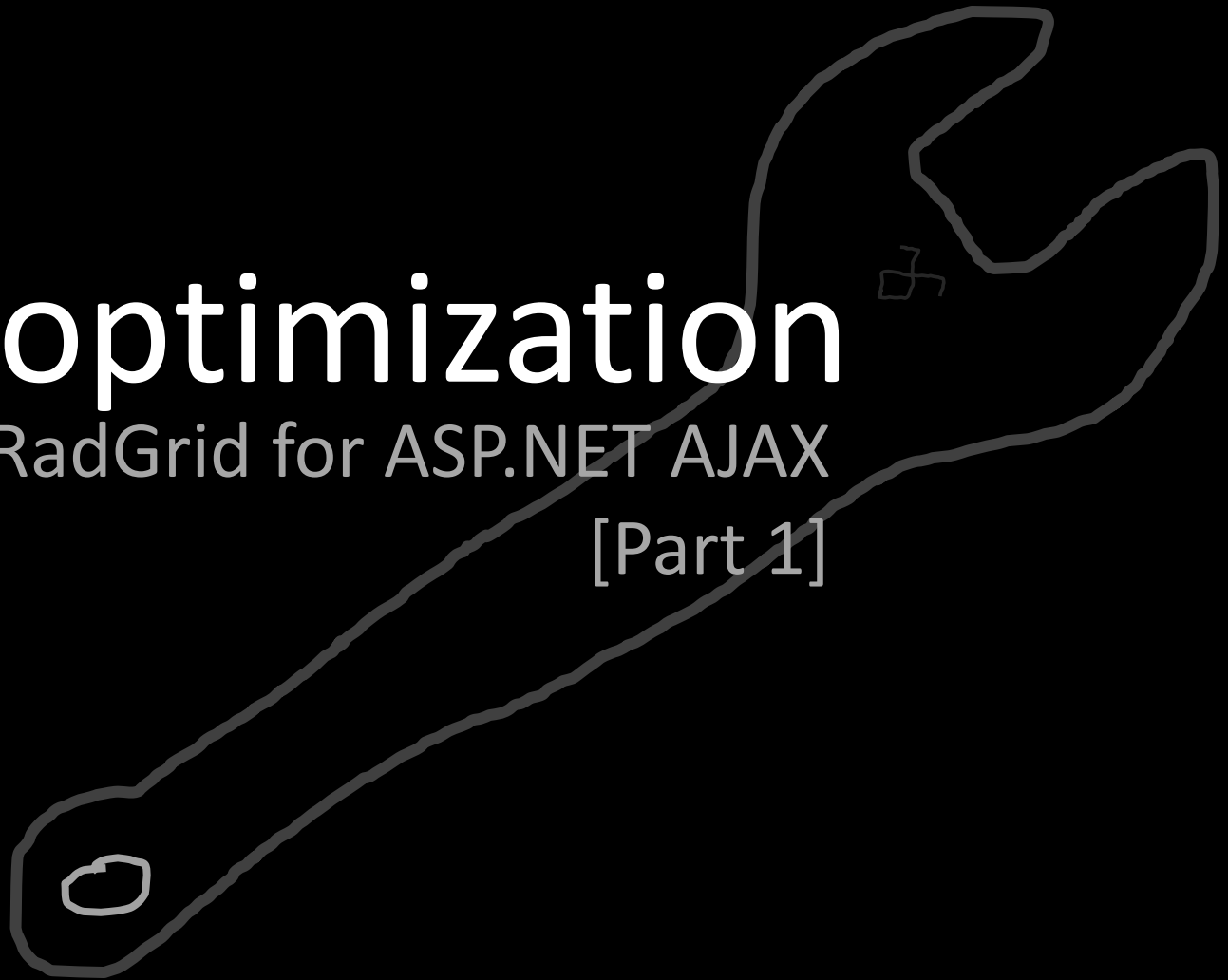


optimization

RadGrid for ASP.NET AJAX

[Part 1]



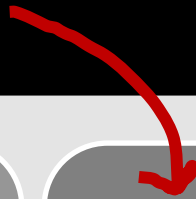
introductions

bio

| | |
|-------------|---|
| name | todd anglin |
| employer | telerik |
| title | chief evangelist |
| credibility | microsoft mvp president of north houston dnug o'reilly author |
| weblogs | telerikwatch.com weblogs.asp.net/toddanglin |

today's plan

lot's of demos!



Define
problem

Define
optimization

Optimizing
RadGrid

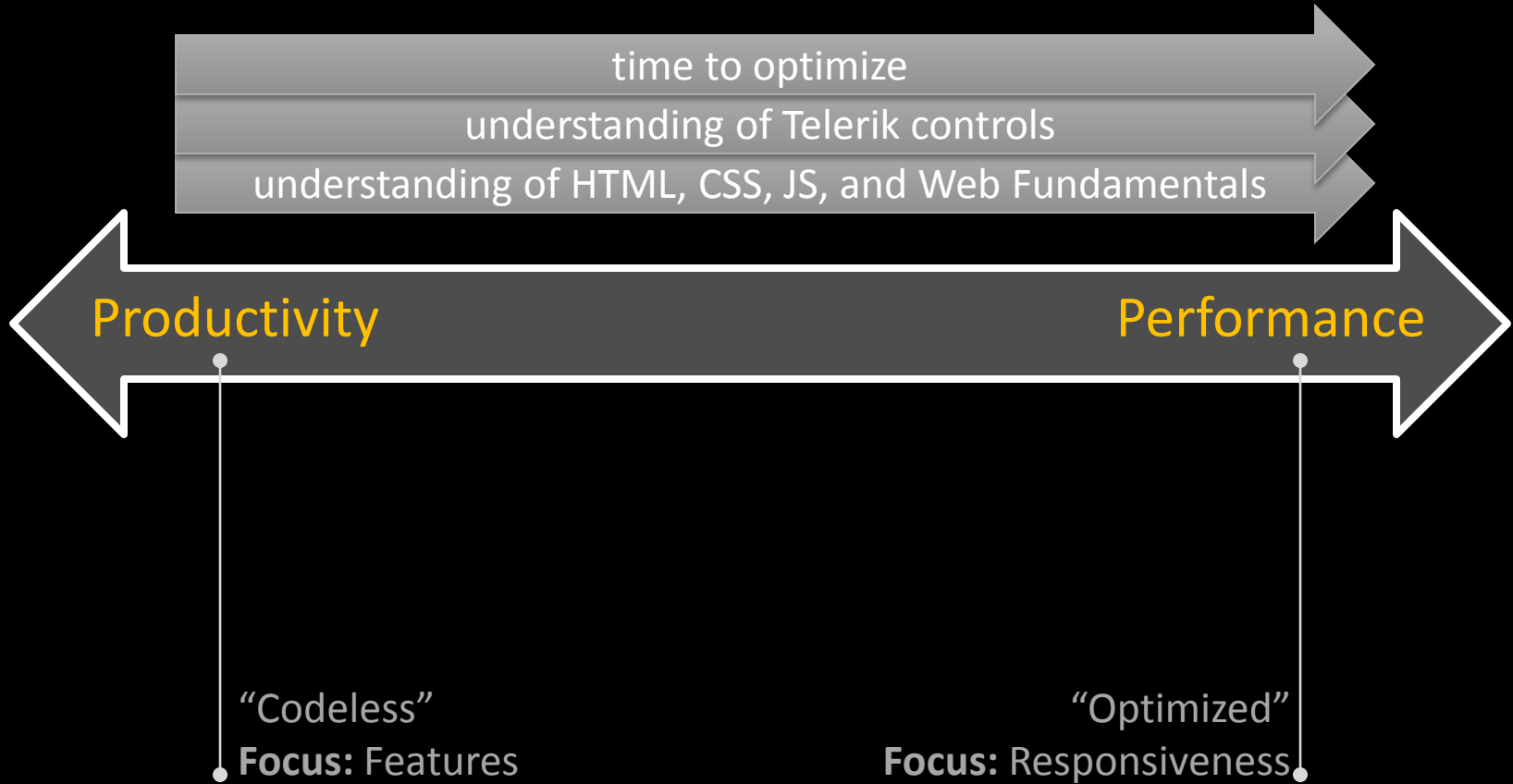
Follow-up
Resources

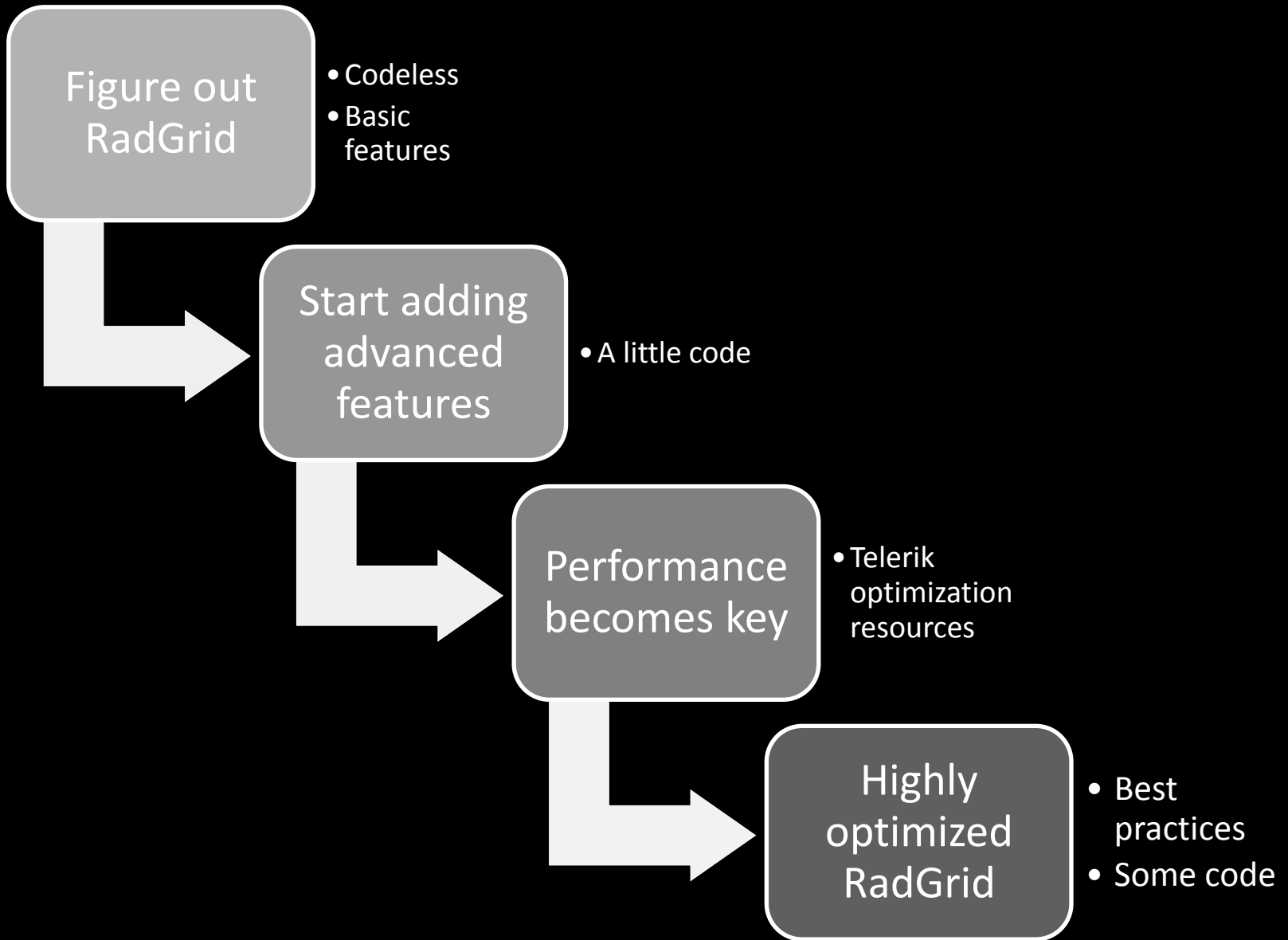
*not an intro

knowledge of asp.net and radgrid
assumed

what's the problem?

maximizing value





myth:

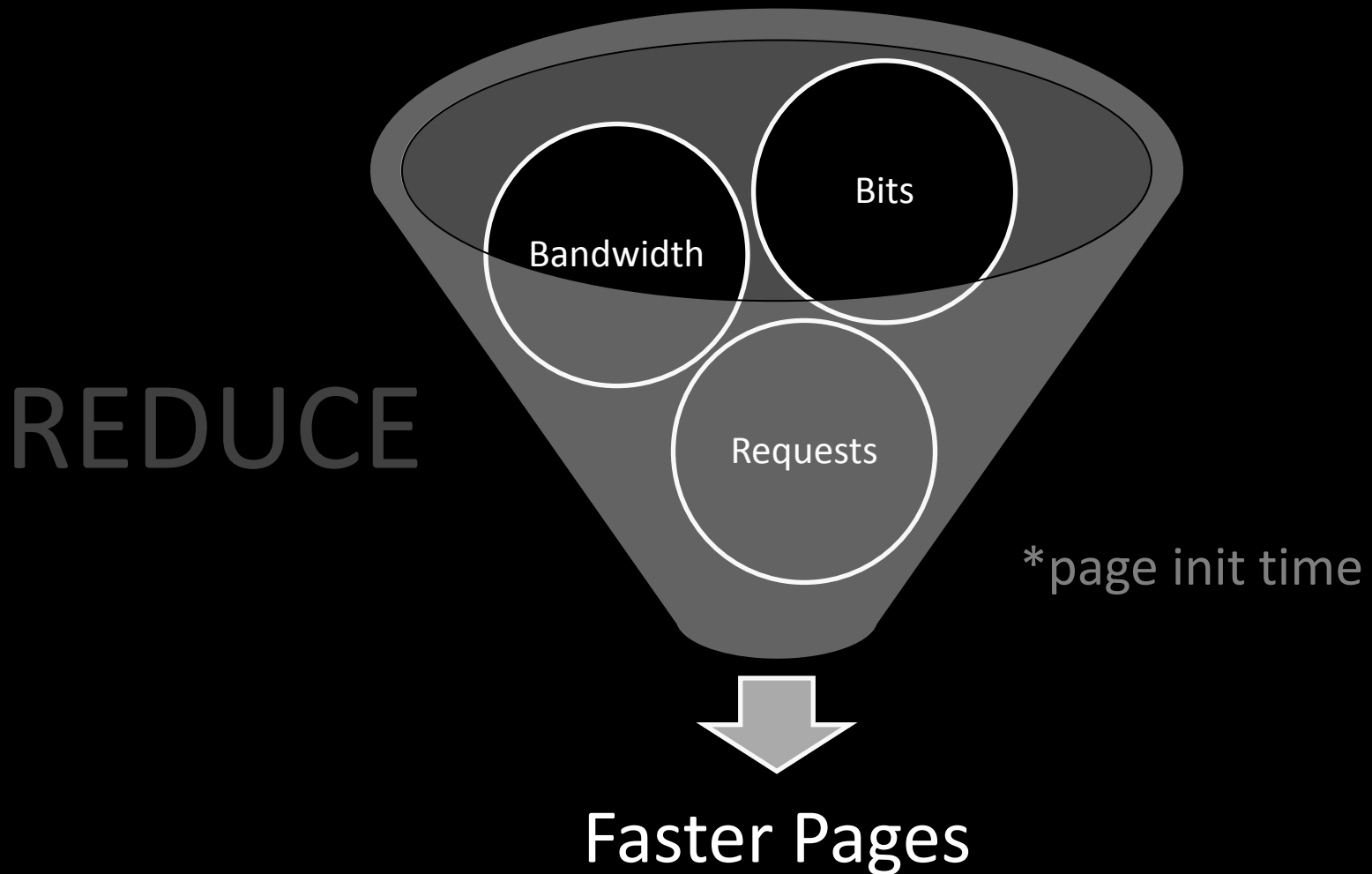
optimizations require lots of code

fact: many optimizations are easy

what does “optimization” mean?

1. Improving page load time
2. Improving application
responsiveness

how do you optimize the web?



Combine scripts | Combine CSS | Optimize images | Improve browser caching strategy | Use a CDN | Cache dynamic pages | Reduce trips to database | Parallelize resource loading | Remove unused CSS rules | Minify JavaScript | Compress server responses | Put CSS at page top | Put JS at page bottom | Reduce DOM elements | Make CSS and JS external | Post load resources | Use GET with Ajax | Minimize ViewState | Avoid Page LifeCycle | Reuse common UI components | Cache data server-side | Load-on-demand

*there are no silver bullets

every option has pros & cons

every option must be tested on *your* site

the point: you *have* options

optimizing RadGrid

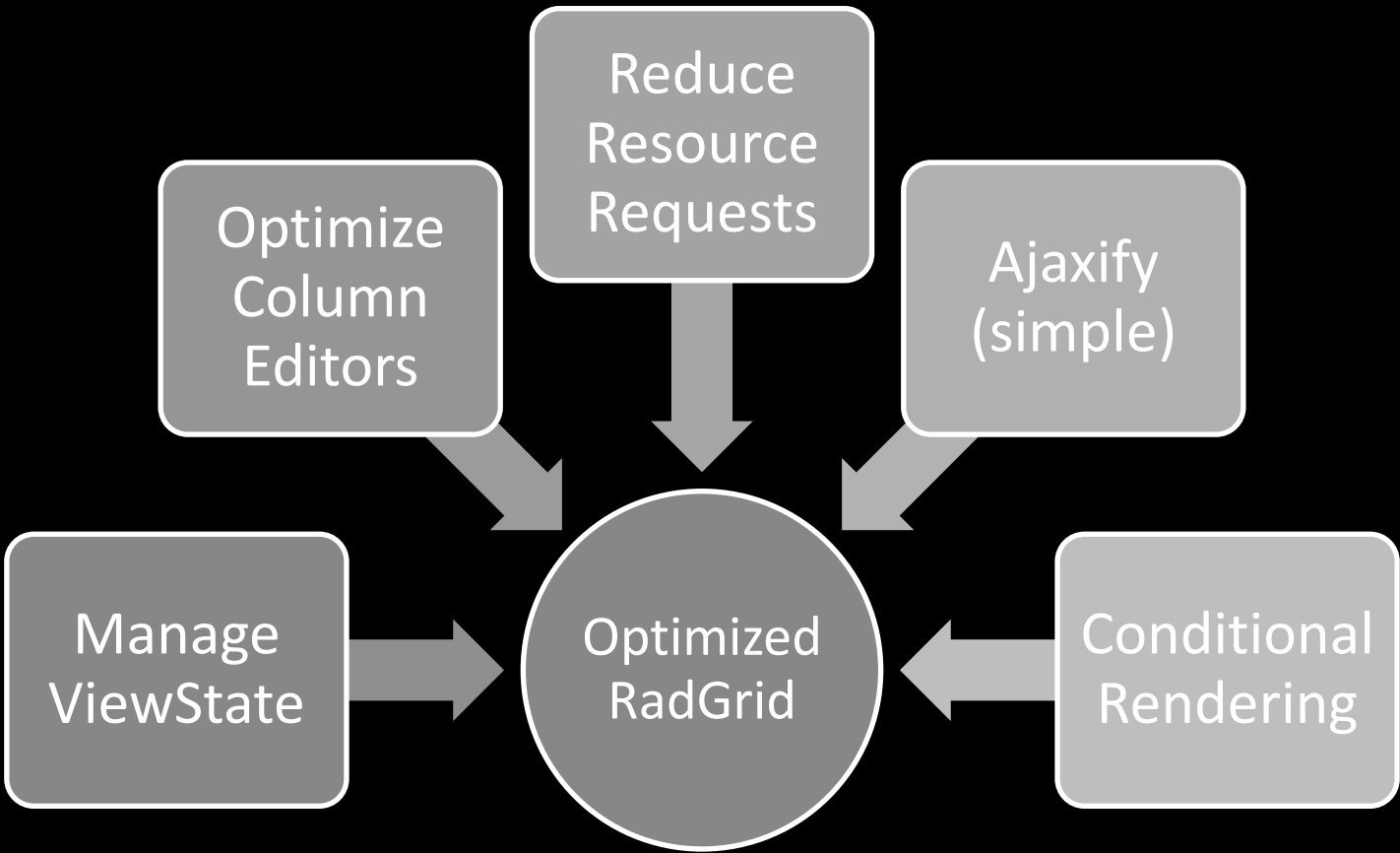
Optimize
embedded
controls

Optimize
hierarchy/groups

Optimize page
resources &
requests

Optimize data
operations

Optimize grid
operations



manage viewstate

1. Don't load data in ViewState
2. Disable ViewState
3. Use PageStatePersister

BENEFIT

Smaller page size

optimize column editors

1. Use shared date picker
2. Use RadInputManager
3. Use load-on-demand
RadComboboxes

BENEFIT

Smaller page size

ajaxify (simple)

1. Use RadAjaxManager
2. (Use RadCompression)

BENEFIT

Reduce bandwidth

reduce resource requests

1. Use RadManagers
2. Use RadCompression

BENEFIT

Reduced bandwidth

Reduced requests

conditional rendering

1. Hide Grid with Visible = False
2. Optimize RadMultiPage with
RenderSelectedPageOnly = True

BENEFIT

Smaller page size

are there more solutions?

Definitely!

Client-side
binding

Custom
paging

Virtual
scrolling

Caching data
server-side

Hierarchy
load modes

Group load
modes

Filtering

.NET 3.5 +
LINQ

Upgrade IE6

optimization resources

1. Demos (6)

- demos.telerik.com/aspnet-ajax >
Grid > Performance

2. Articles (8)

- <http://www.telerik.com/help/aspnet-ajax/grdviewstatereductiontechniques.html>

3. Videos

- tv.telerik.com

Thank you for attending!
[Q & A Open Floor]

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@tod danglin
telerikwatch.com

 **telerik**

deliver more than expected