Welcome

To Advance through Presentation
Use Page Up and Page Down Keys

Mac OS X Update

Ken Bereskin

Director,
Product Marketing

Mac OS X Goals

- Mac OS for the next decade
- Modern OS, Modern Apps
- Embrace Industry Standards
- Innovate in key areas

Mac OS 8

Mac OS
To start up from this CD, hold down the C key as the computer starts up.
Featuring:
• Mac OS 8.5
• Remote Access Startup
• Apple, IS & T and Sitio Licensed Software

Mac OS X Server

Combining Strengths

Combining Strengths

Mac OS X Engineering Update

Bertrand Serlet
VP, Mac OS X

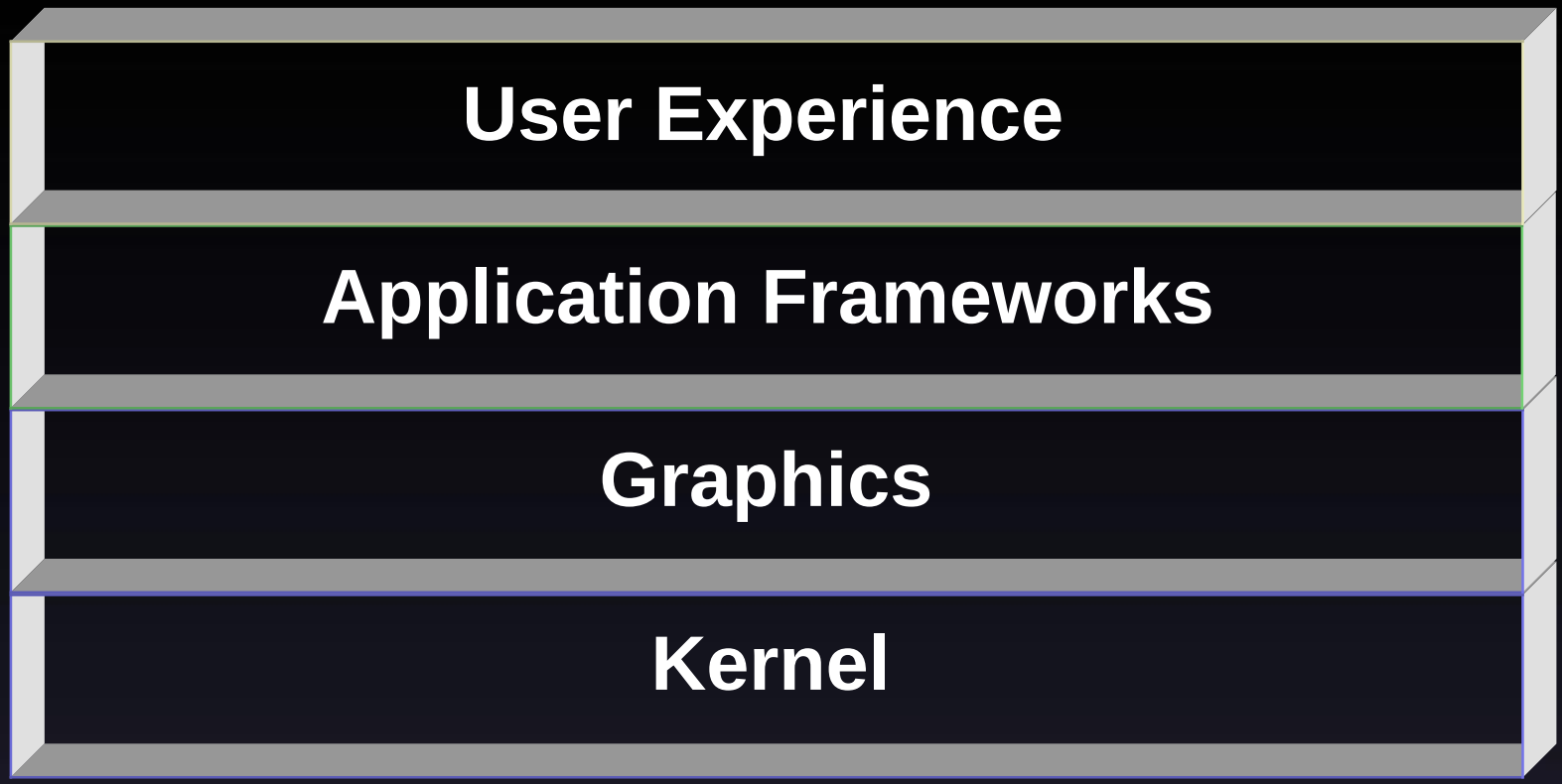
Design Goals

- Protected and preempted Carbon apps
- A foundation for the next decade
- Layered system
- Same basis for Desktop and Server
- Leverage open industry standards
- Technology leadership

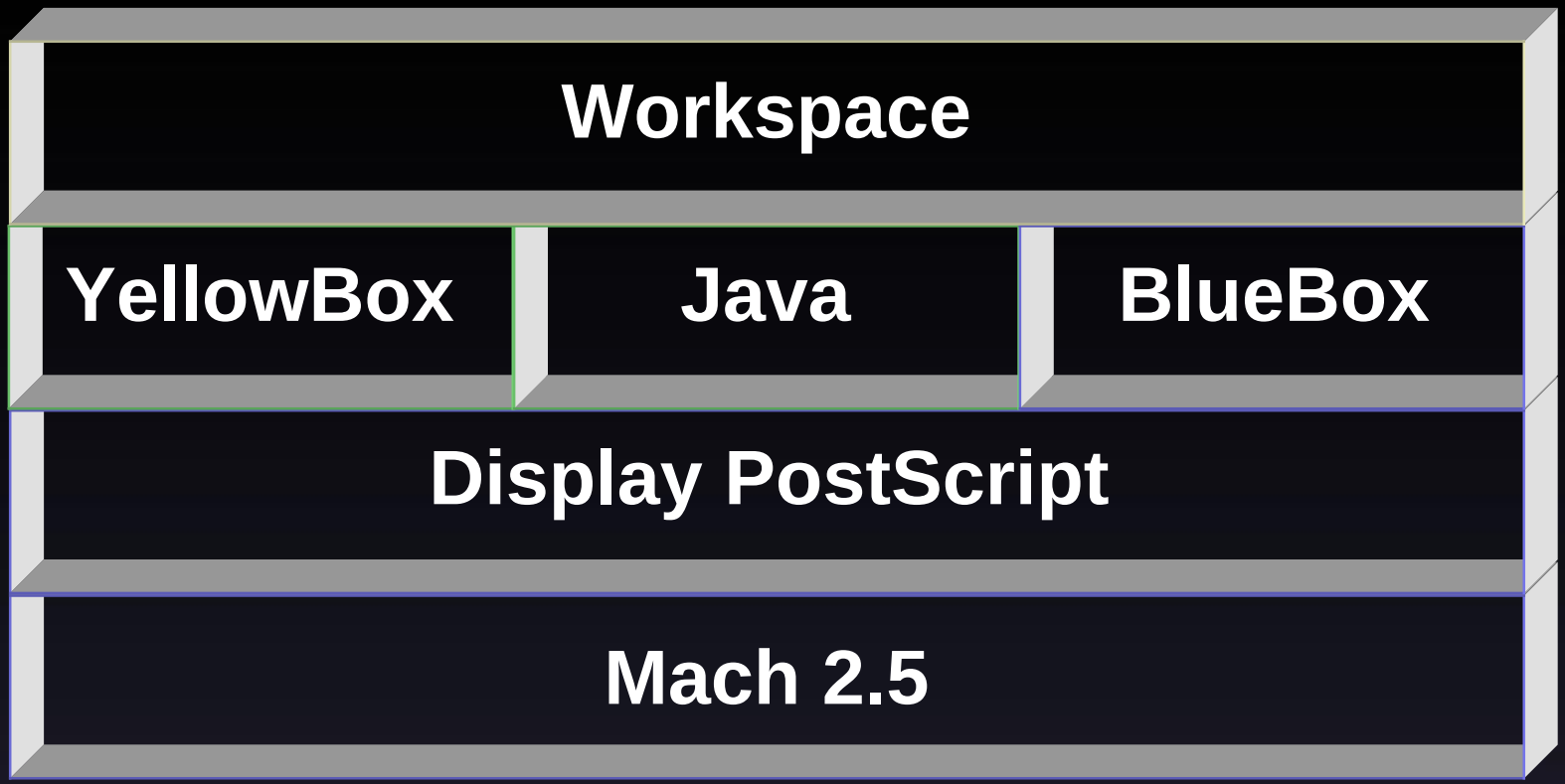
Combining Strengths

Combining Strengths

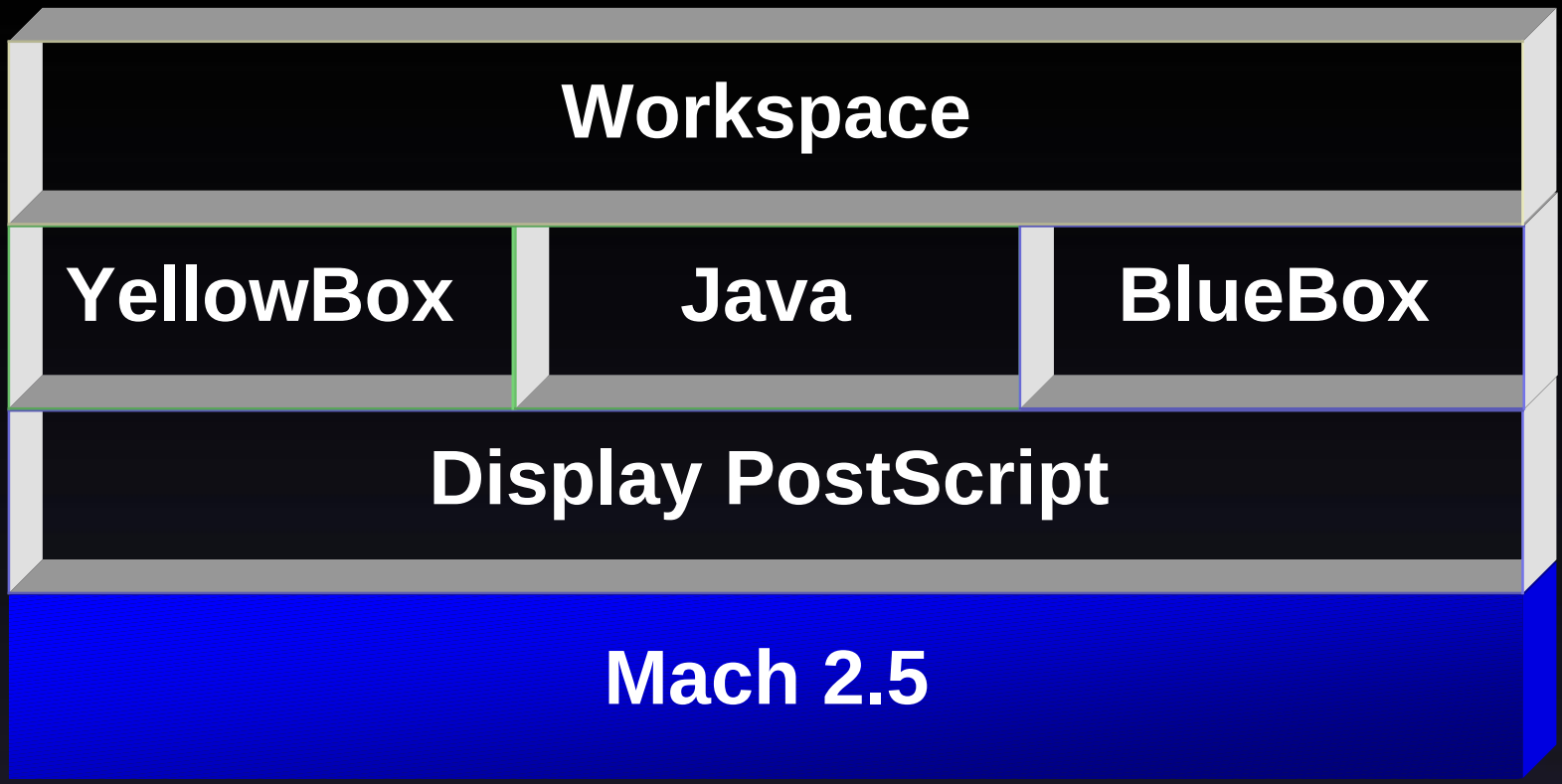
Combining Strengths


User Experience
Application Frameworks
Graphics
Kernel

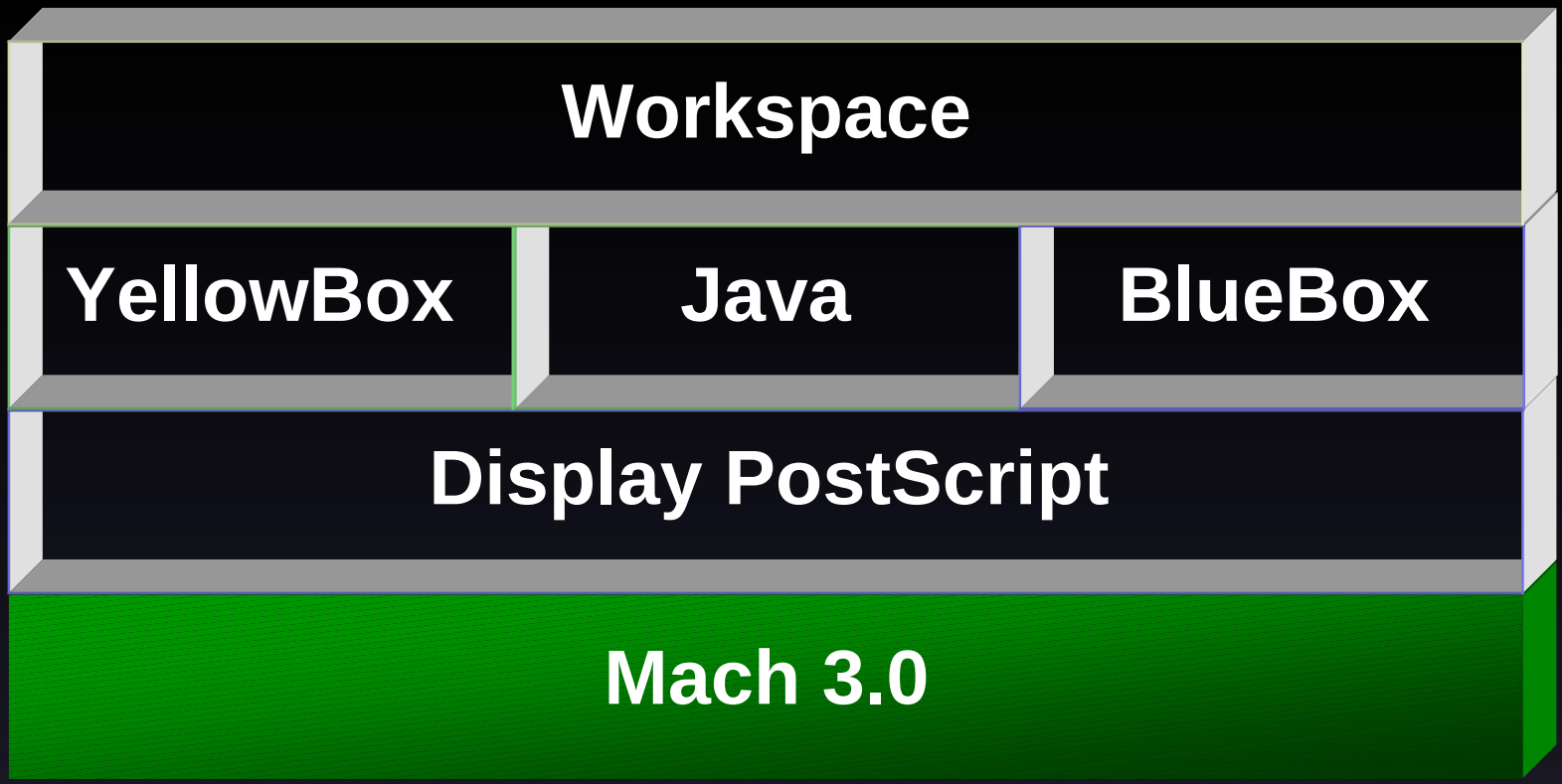
Mac OS X Server



Focus: Kernel

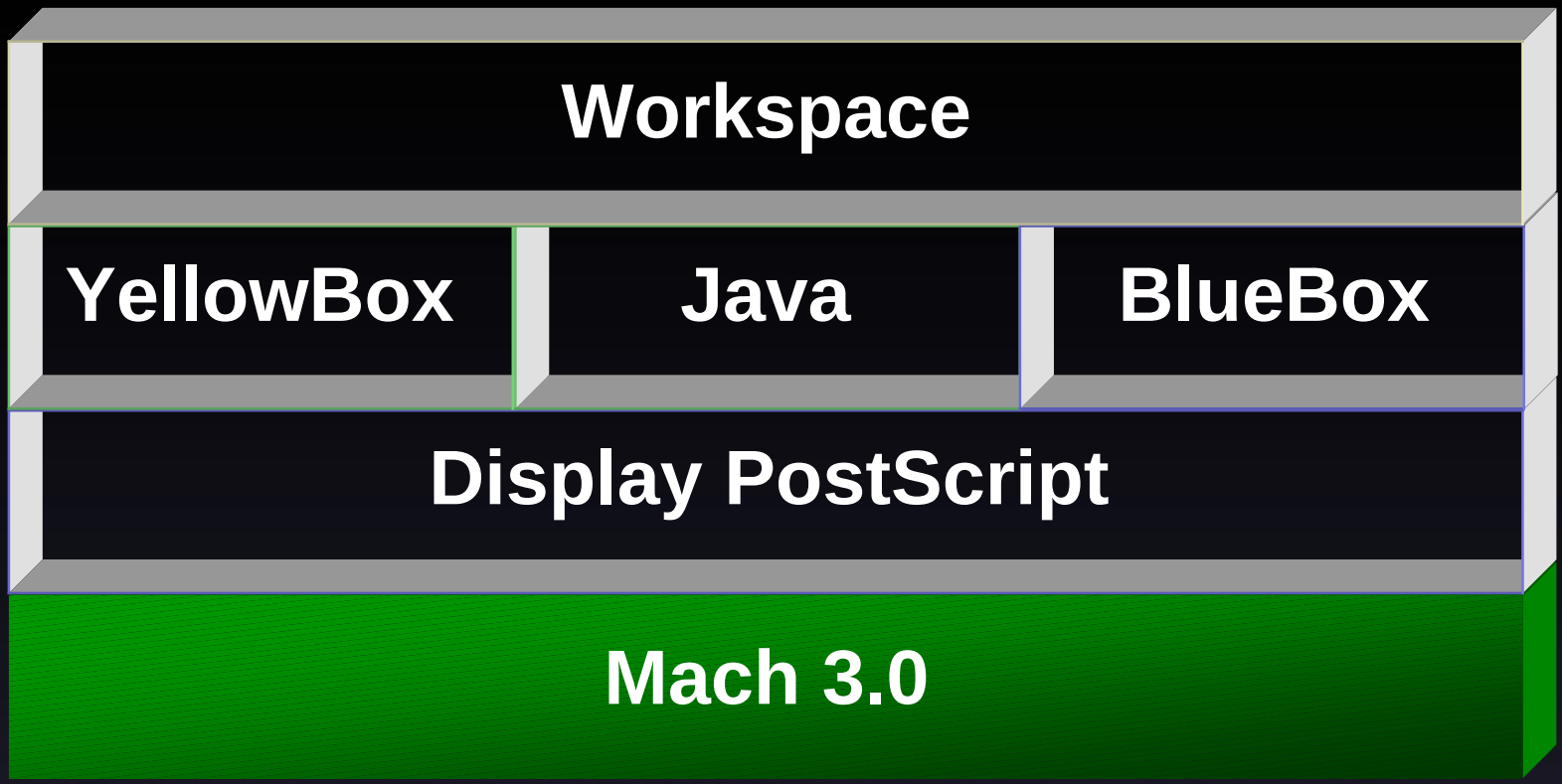


Foundations for the Next Decade

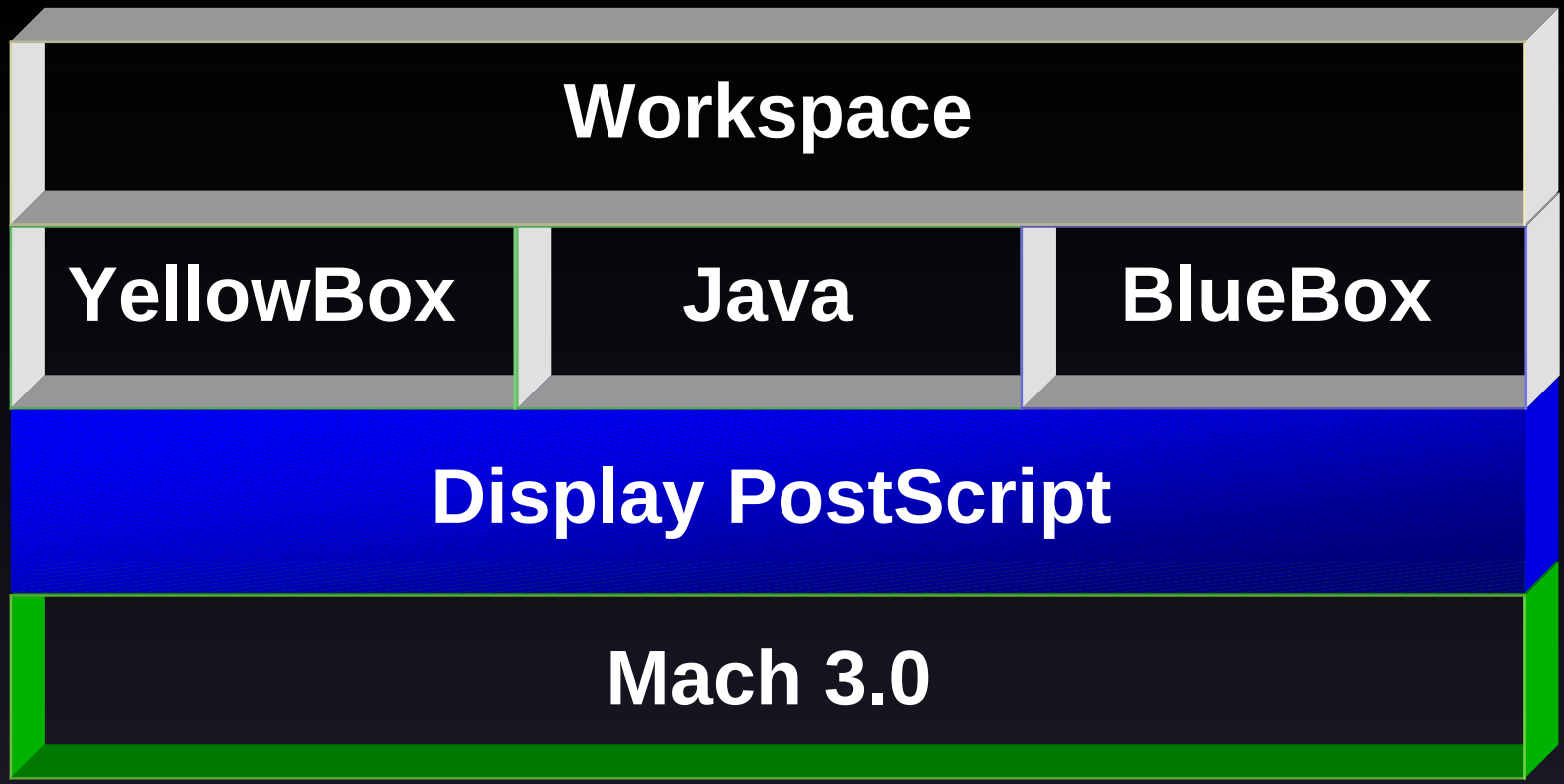


Mach 3.0

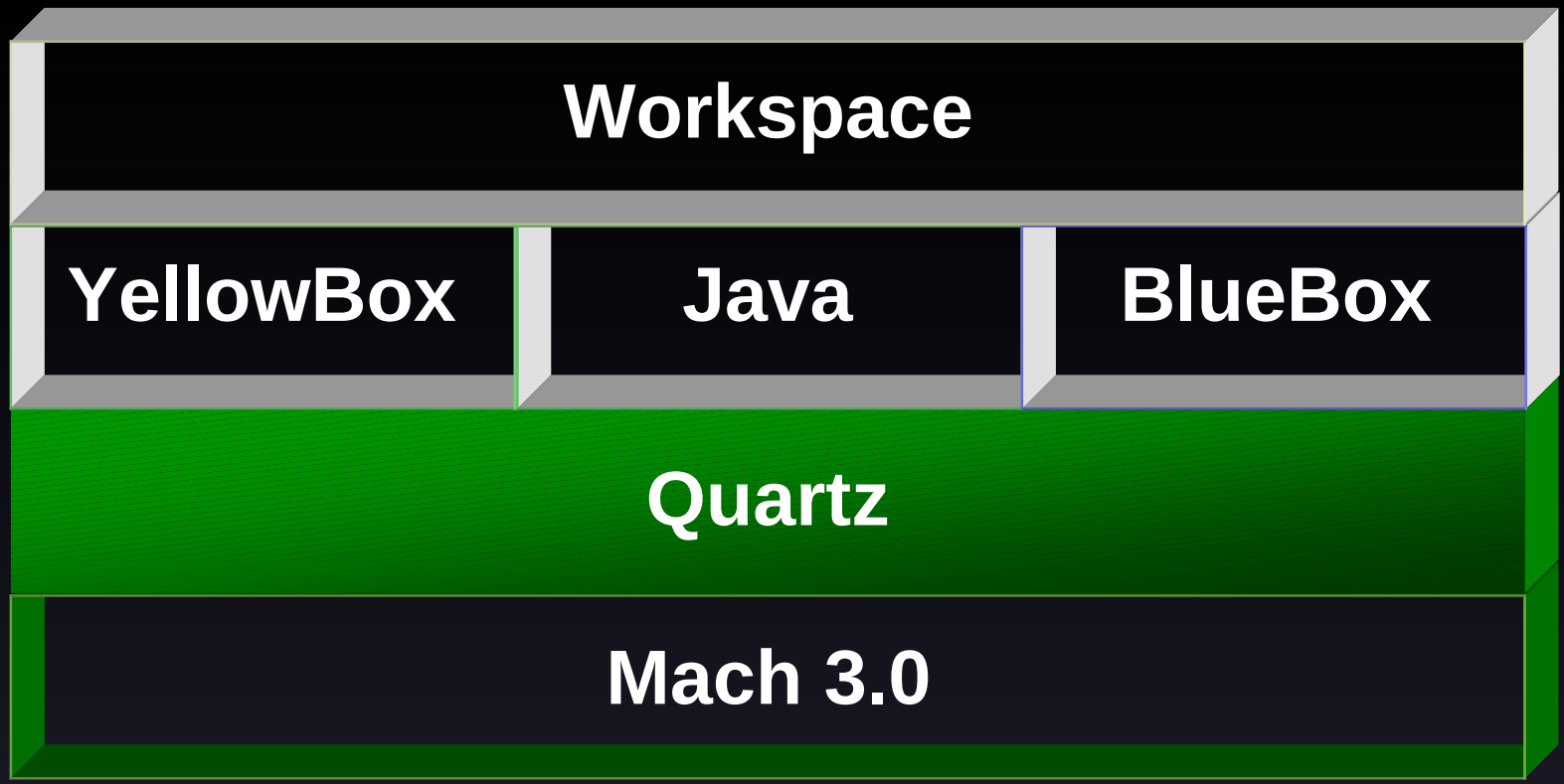
- Evolution of Mach 2.5
- Preemptible
- SMP
- IOKit for drivers
- Foundation for BSD 4.4
- OpenSource!


Workspace
YellowBox
Java
BlueBox
Display PostScript
Mach 3.0

Focus: Graphics

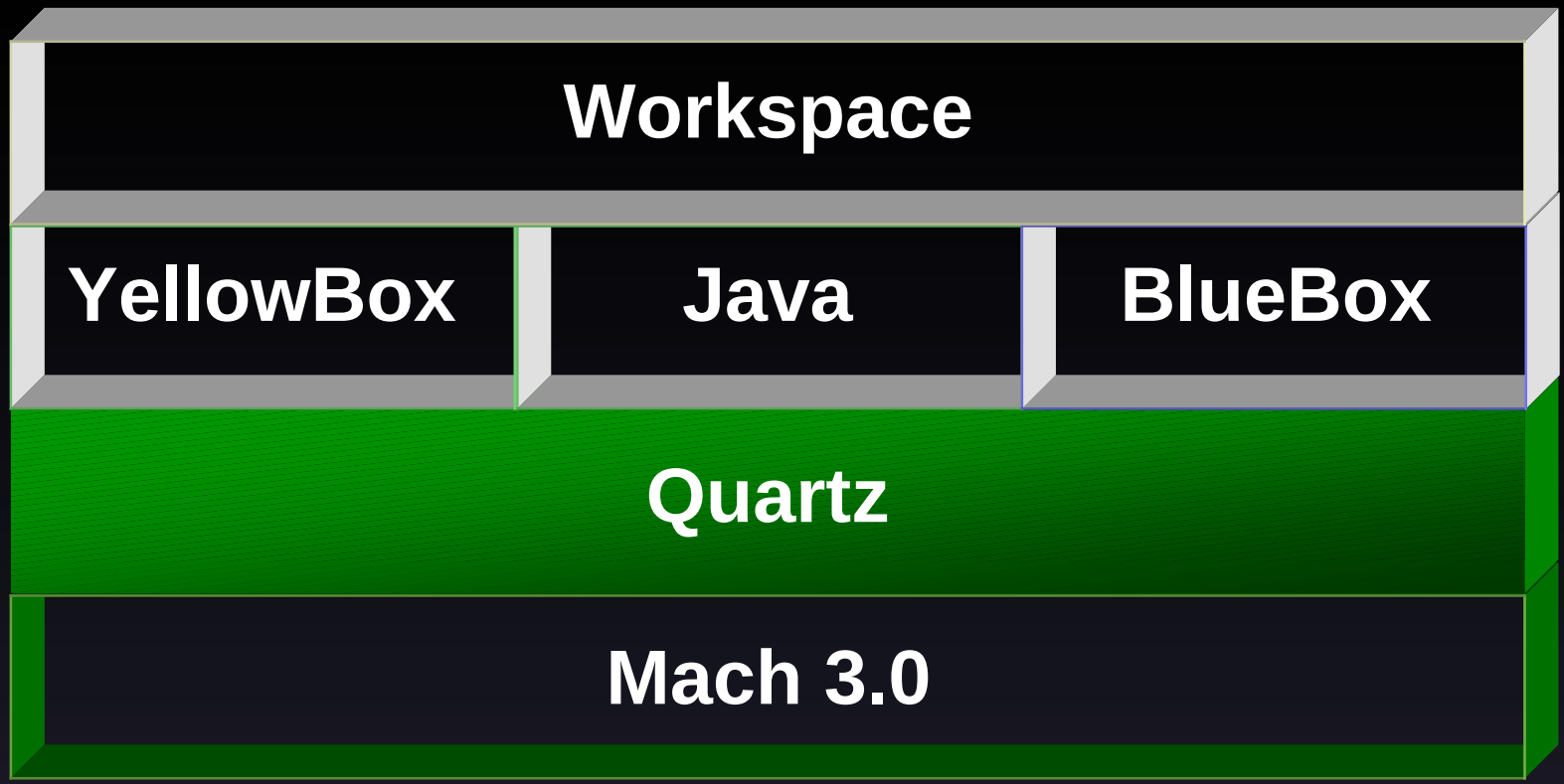


Quartz:
The Best of Both Worlds

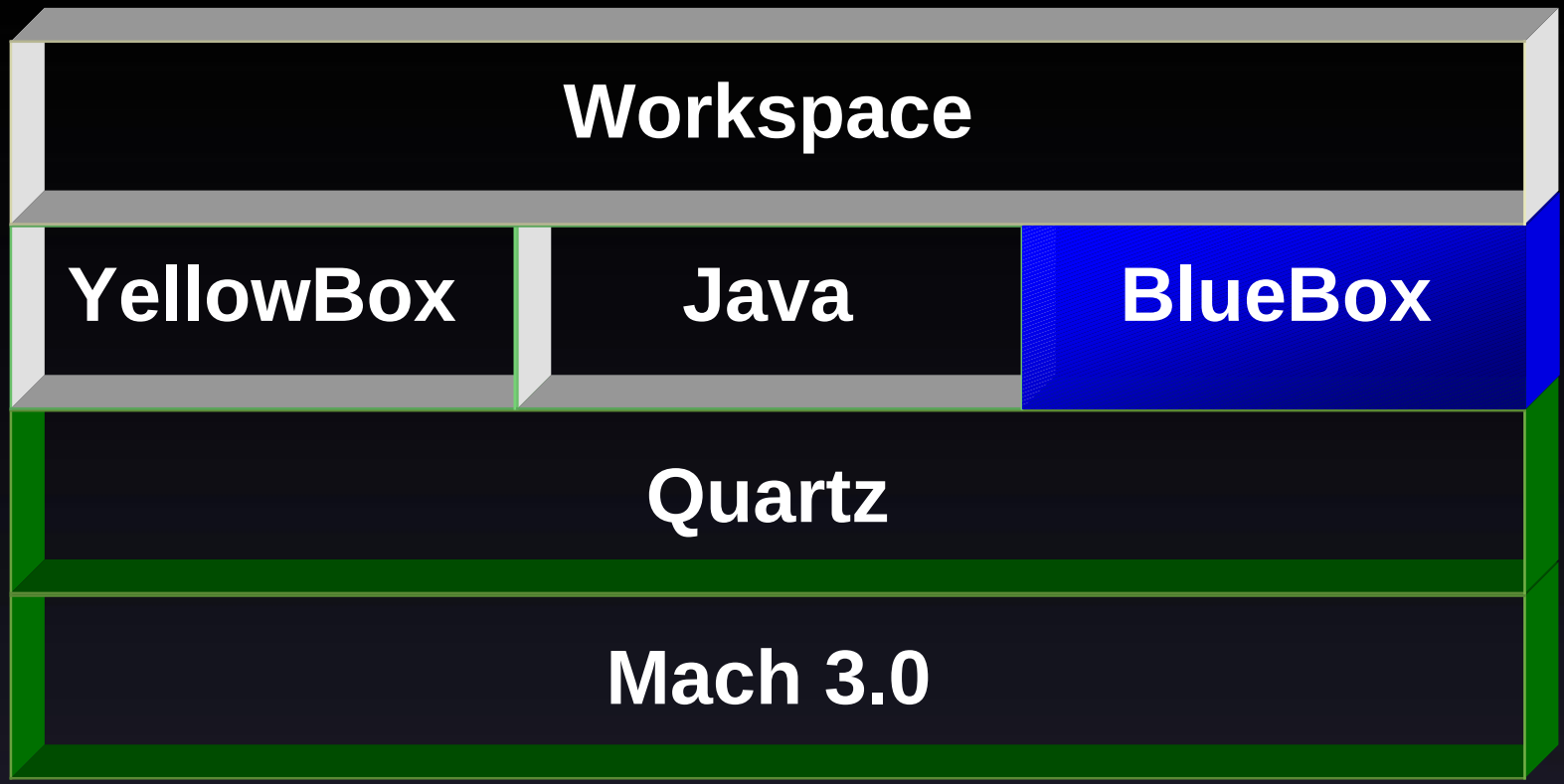


Quartz

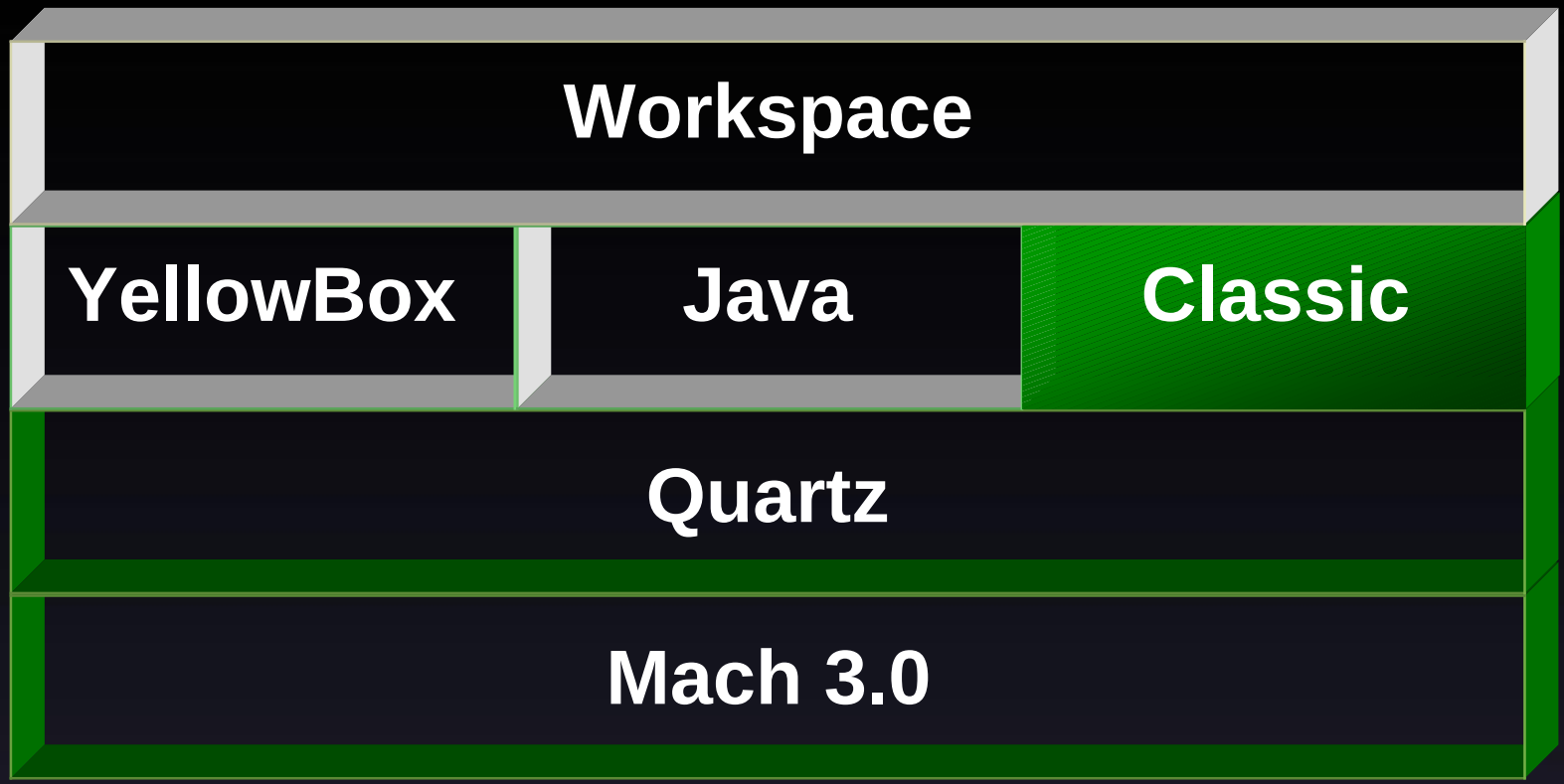
- Window server, client drawing
- Multiple client libraries: QuickDraw, OpenGL
- PostScript imaging model, PDF centric
- Advanced imaging
- Supports HW acceleration, AltiVec
- Supports a better BlueBox


Workspace
YellowBox
Java
BlueBox
Quartz
Mach 3.0

Mac OS Compatibility Environment, aka BlueBox



Without a Box



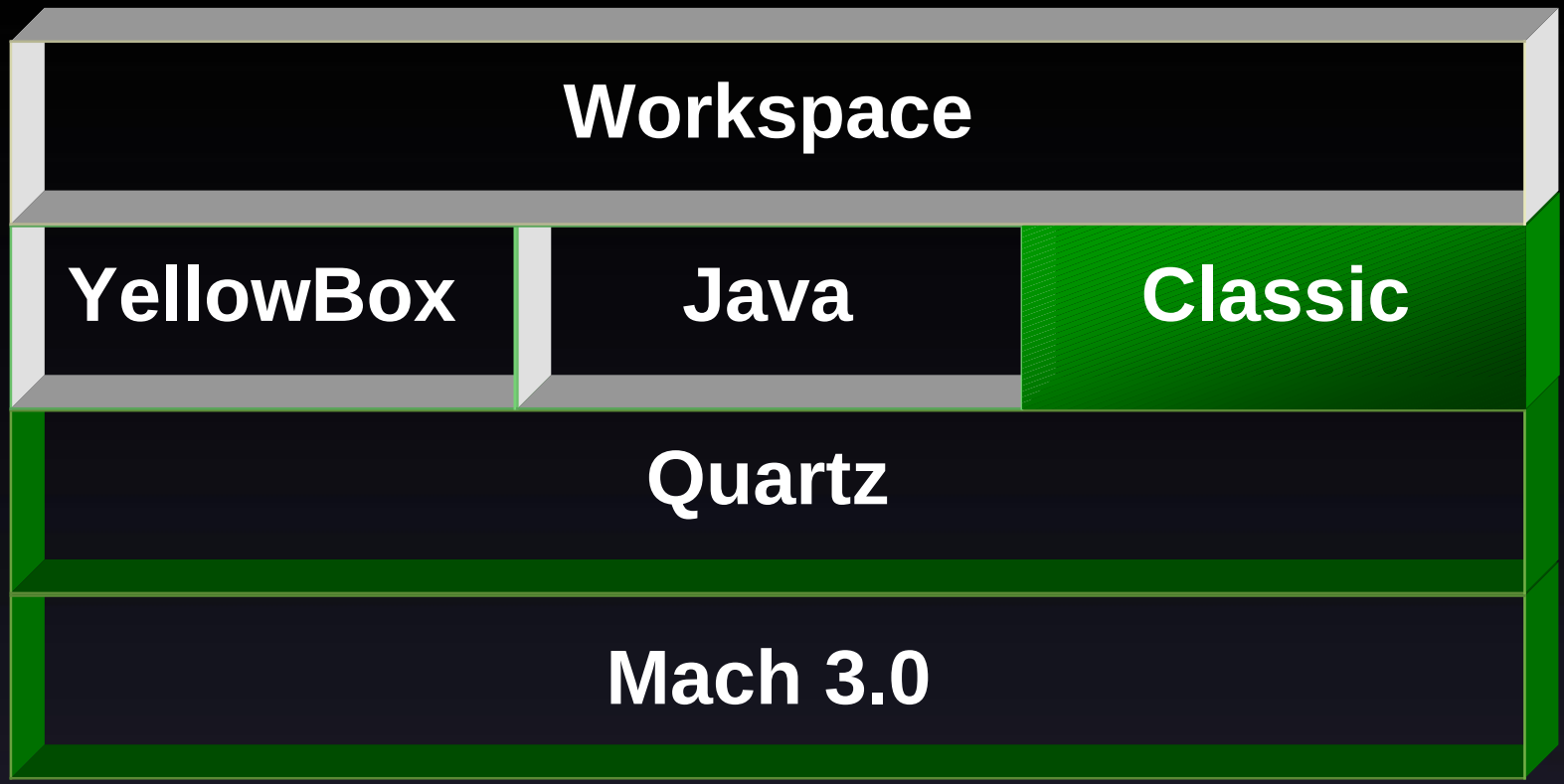
Classic Applications

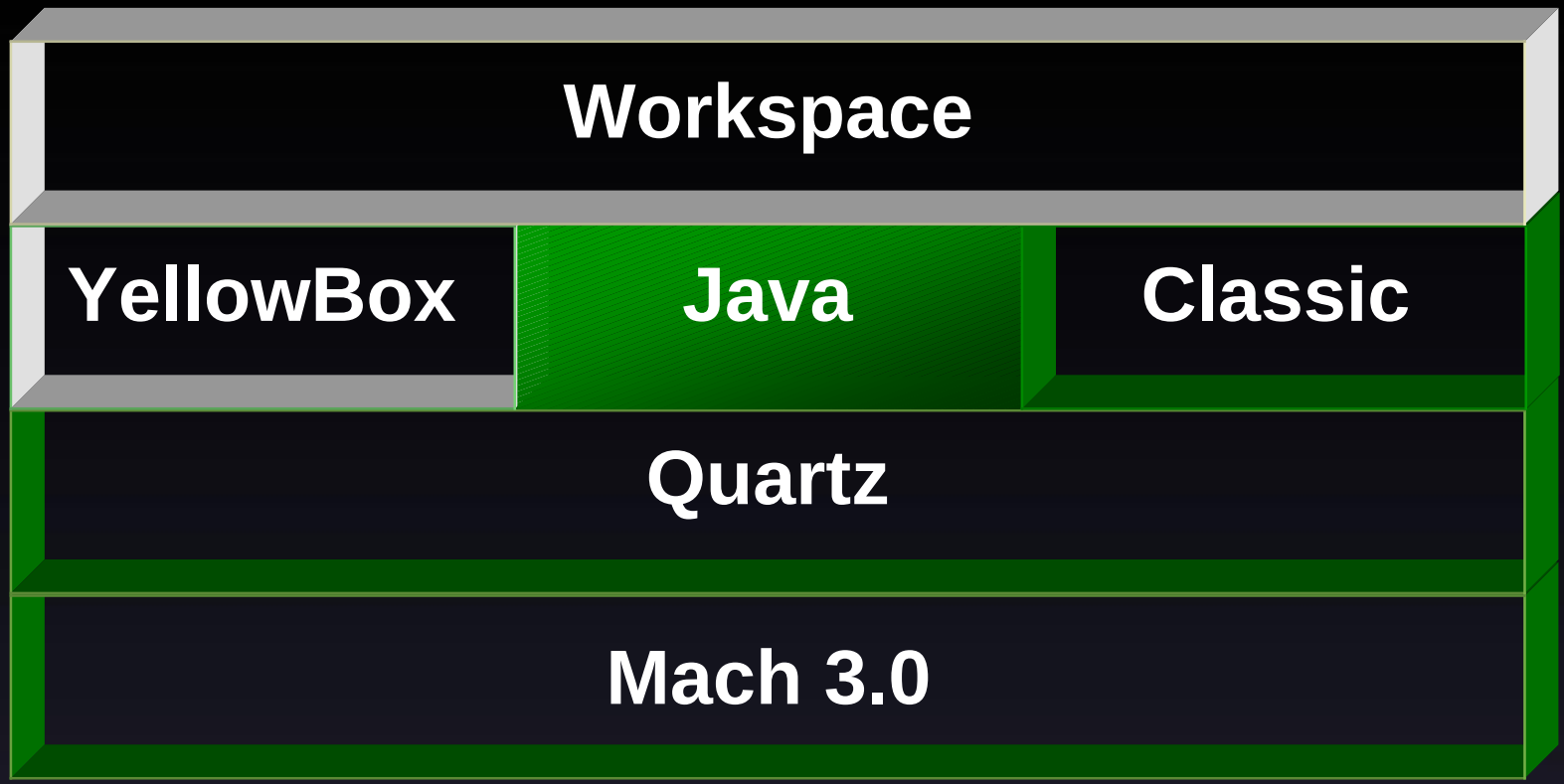
- Requirement for desktop
- Same high level of compatibility
- Same high level of performance

Believed impossible

Demo: Classic

Roger Pantos
BlueBox Engineering


Workspace
YellowBox
Java
Classic
Quartz
Mach 3.0


Workspace
YellowBox
Java
Classic
Quartz
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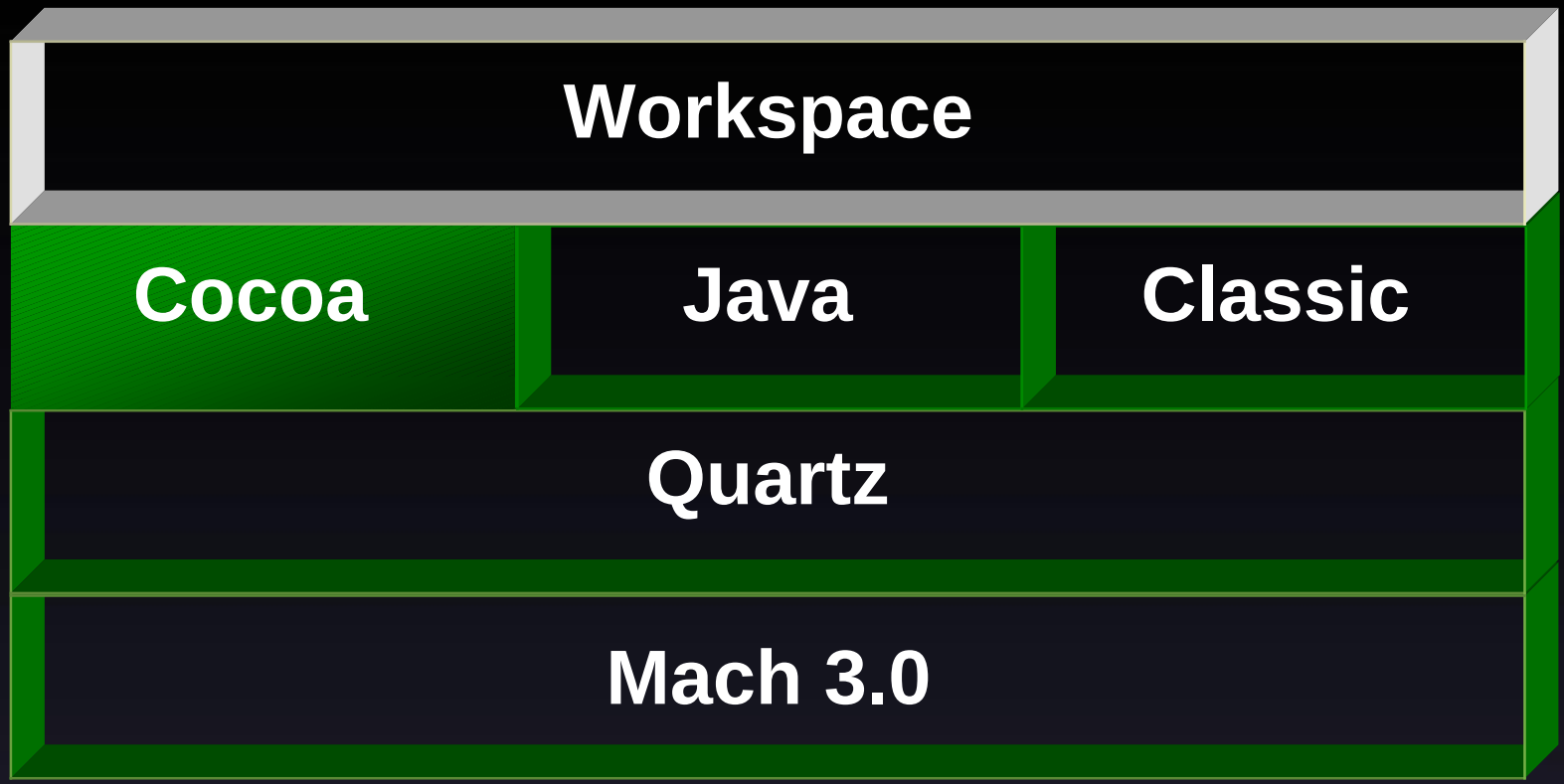
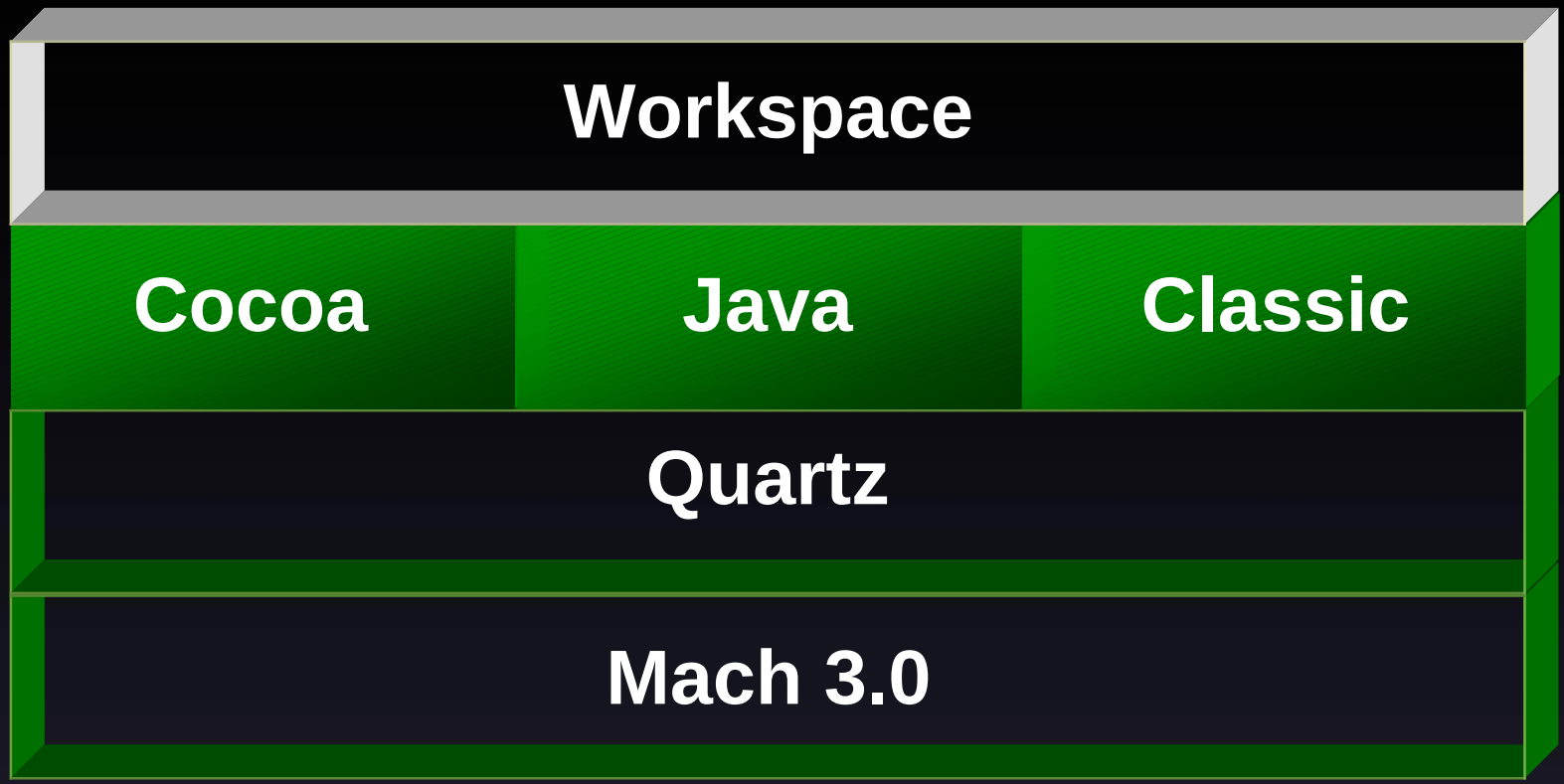
Focus: Cocoa (YellowBox)



Cocoa

- Fully OO
- Rich yet simple
- Expressive yet compact
- Great development environment
  - Interface Builder
- Used for key system apps


Workspace
Cocoa
Java
Classic
Quartz
Mach 3.0

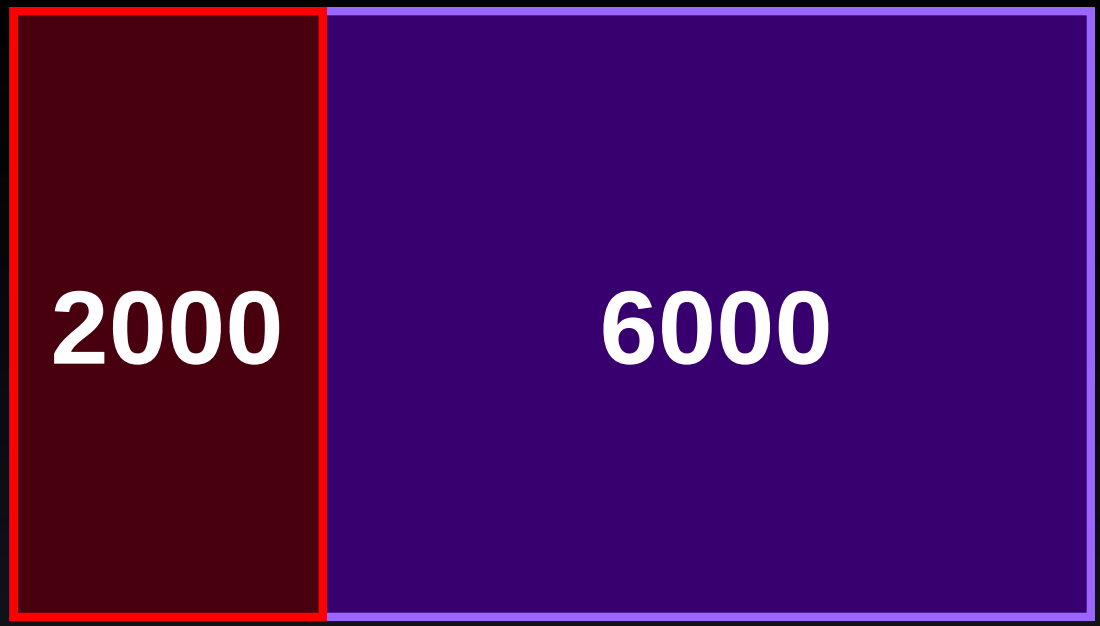
Add Carbon

Tune-up

8000 Functions

- 15 years of API development for Mac OS
- Many are essential
- Many prevent progress

Tune-up



Tune-up

Carbon

Carbon

- An API
  - Finalized spec—CarbonDater
- Implementation on Mac OS X
  - Latest Mac OS 8 code base
- Implementation on Mac OS 8
  - Synchronized CarbonLib (8.1 and above)

Workspace
Carbon
Cocoa
Java
Classic
Quartz
Mach 3.0

Application Frameworks

Application Frameworks

- Equal citizens
- Simplified packaging
  - Single package, multiple localizations
- Shared infrastructure
  - Core Services: AppleEvents, Drag, . . .
  - Core Foundation

Demo: Applications Integration

Christine O'Sullivan

Director,
Mac OS X Integration

Workspace
Carbon
Cocoa
Java
Classic
Quartz
Mach 3.0

Workspace
Carbon
Cocoa
Java
Classic
Quartz
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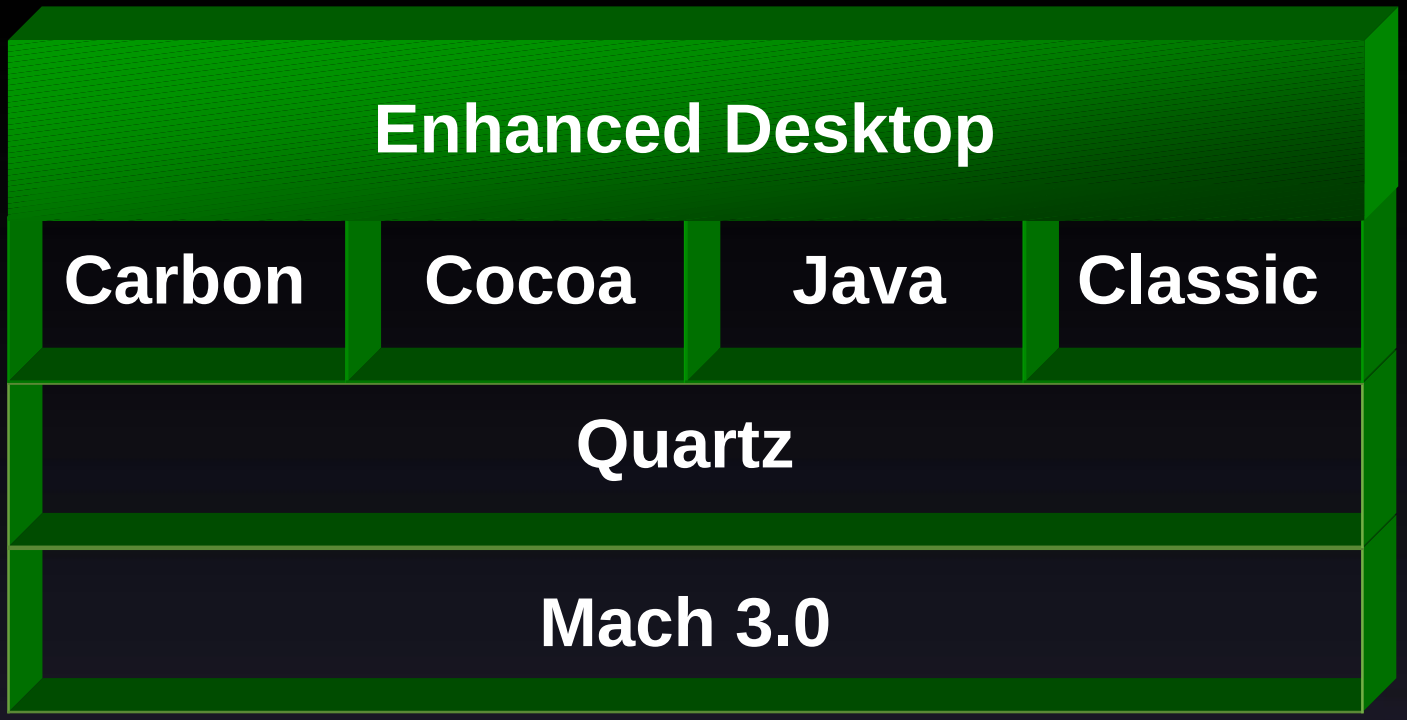
Integrate Familiar Desktop

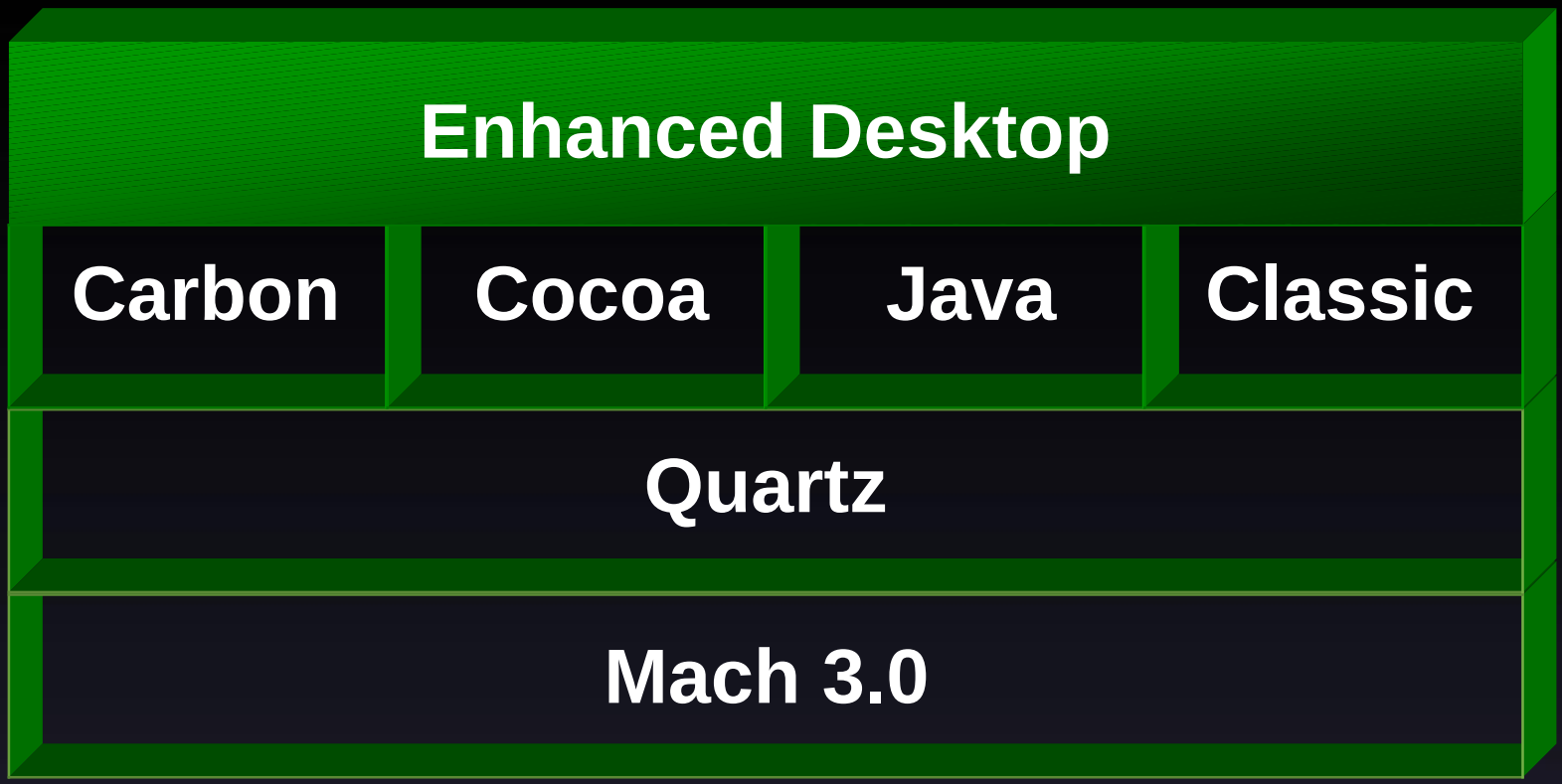
Enhance Familiar Desktop



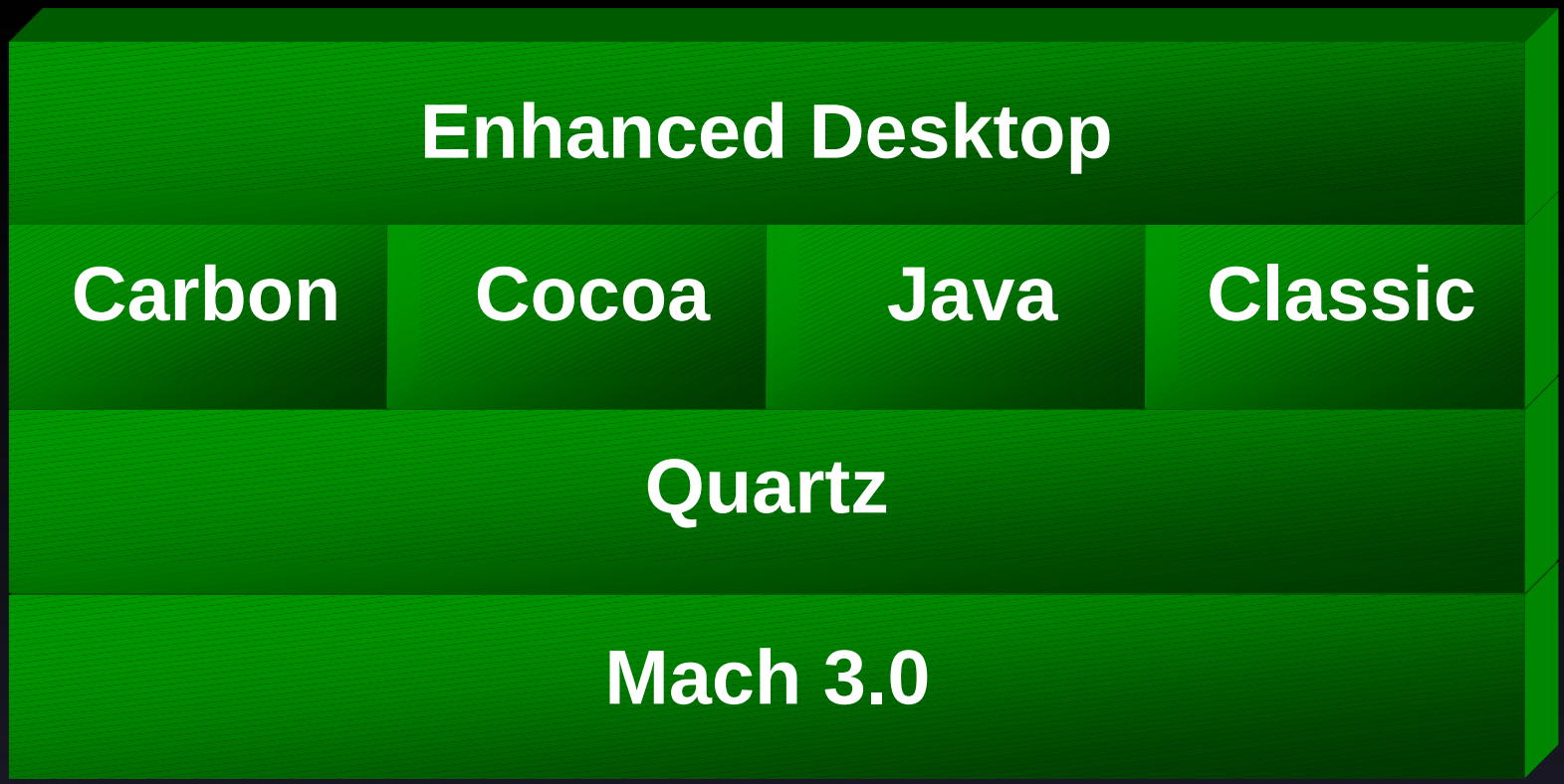
Demo: Carbon Finder

Ken Bereskin

Director,
Product Marketing

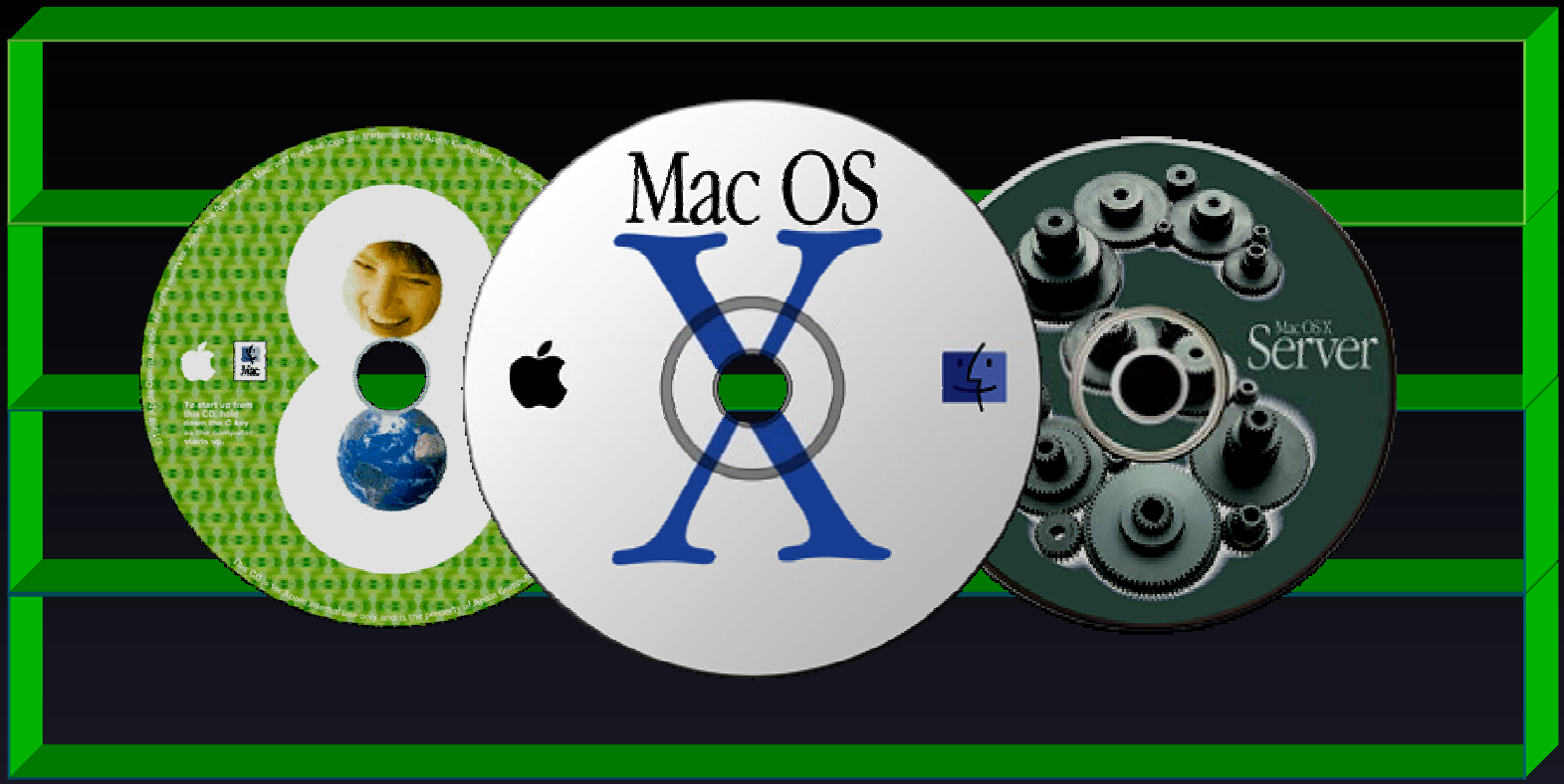

Enhanced Desktop
Carbon
Cocoa
Java
Classic
Quartz
Mach 3.0

Mac OS X



Mac OS X

Combining Strengths



Developer Preview

- Mach 3.0—IOKit
- Quartz
- Carbon for Mac OS X
- CarbonLib for 8.1, 8.5, 8.6
- Cocoa, Classic
- Tools to build Carbon and Cocoa apps
- Final Carbon Spec

Upcoming…

- Full Carbon
- Switch from Workspace to Carbon Finder
- Performance, Tools enhancements
- Developer Preview 2 late summer
- IOKit DDK
- Darwin update
- Mac OS X by early ’00

Pointers . . .

Core OS Overview: Foundation for the next decade	Hall A1 **Tues., 1:00PM**
Mac OS X Graphics Architecture (Quartz): Crystalline graphics	Hall 2 **Wed., 9:00AM**
Carbon Overview: Tune-up your Mac application	Hall 2 **Tues., 1:00PM**
What's New in Cocoa: The best OO toolbox on the planet	Hall B **Fri., 10:15AM**
Core Foundation Overview: Base for Carbon and Cocoa	Hall 2 **Wed., 1:00PM**
Mac OS 8 Compatibility (Classic): High compatibility, high performance	Hall 2 **Wed., 4:00PM**

And many more…

Think different.™

Think X

Welcome

To Advance through Presentation
Use Page Up and Page Down Keys