Design Patterns Or, Why Reinvent the Wheel?

R. Scott Granneman & Jans Carton

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- » underneath the link to this slide show on granneman.com
- » at files.granneman.com/presentations/webdev/ Design-Patterns.txt

Architecture



A Pattern Language

Towns · Buildings · Construction



Christopher Alexander Sara Ishikawa · Murray Silverstein

Max Jacobson · Ingrid Fiksdahl-King Shlomo Angel

Design Pattern

"a formal way of documenting a solution to a design problem in a particular field of expertise." —Wikipedia "Each pattern describes a problem that occurs over and over again in our environment, and then describes the core of the solution to that problem" —Christopher Alexander



Pattern Language

"An organized collection of design patterns that relate to a particular field" —Wikipedia

Why?

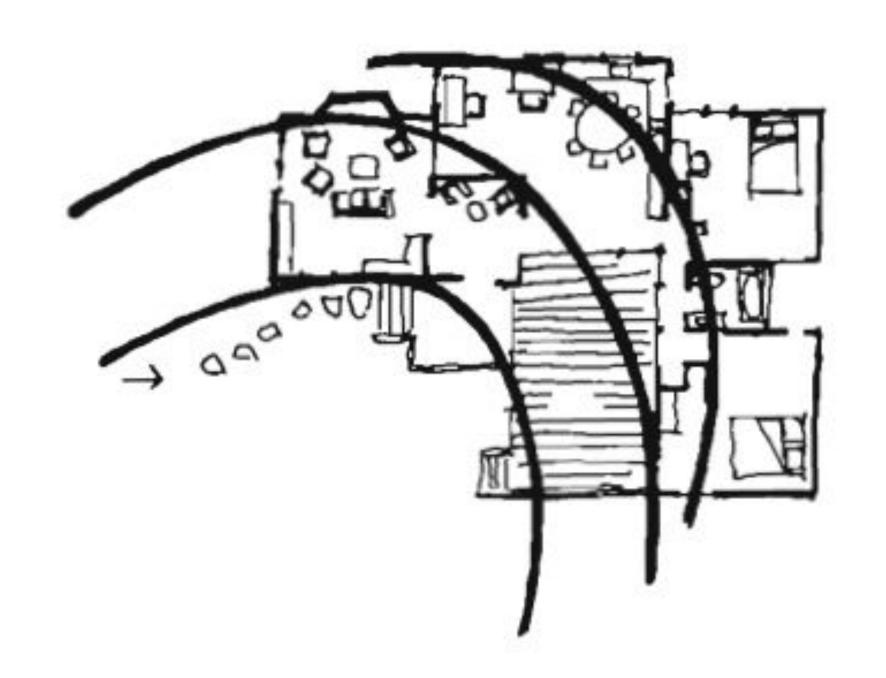
Re-use successful solutions

Think about what's done & why

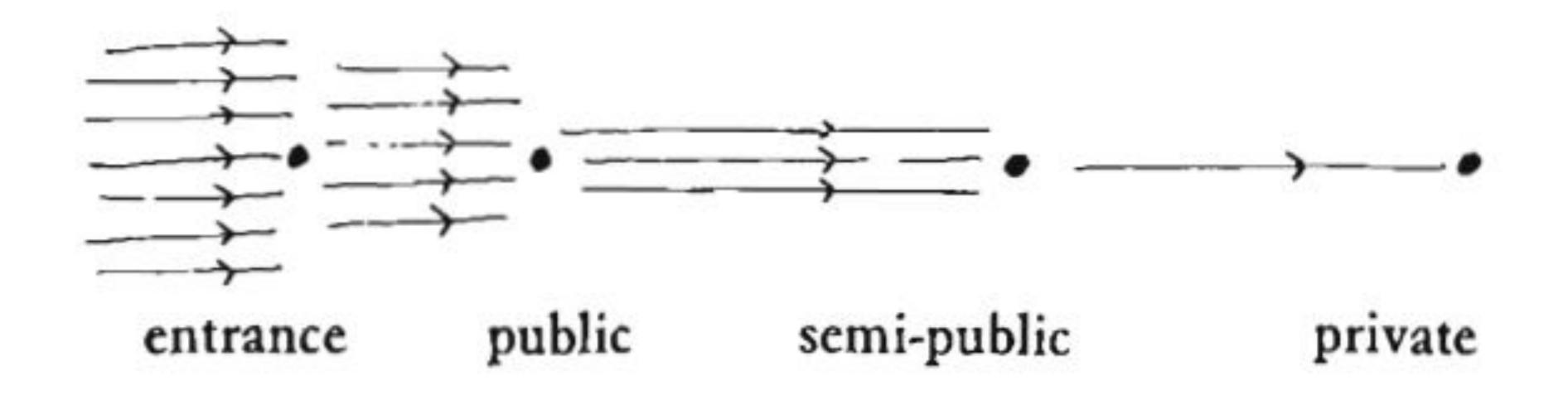
Easier to encapsulate & transfer knowledge & experience

Pattern 127 from *A Pattern Language*: Intimacy Gradient

"Unless the spaces in a building are arranged in a sequence which corresponds to their degrees of privateness, the visits made by strangers, friends, guests, clients, family, will always be a little awkward." "In a small shop the sequence might be: shop entrance, customer milling space, browsing area, sales counter, behind the counter, private place for workers."



"In a house: gate, outdoor porch, entrance, sitting wall, common space and kitchen, private garden, bed alcoves."



"Therefore: Lay out the spaces of a building so that they create a sequence which begins with the entrance and the most public parts of the building, then leads into the slightly more private areas, and finally to the most private domains."

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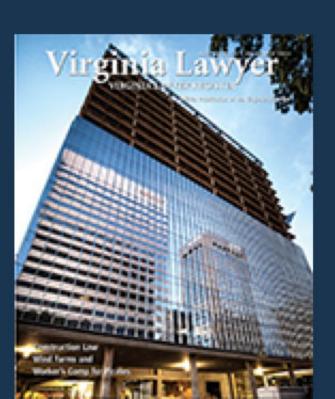
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Senators Mark R. Warner and Timothy M. Kaine are accepting applications for the position of United States Attorney for the Western District of Virginia.

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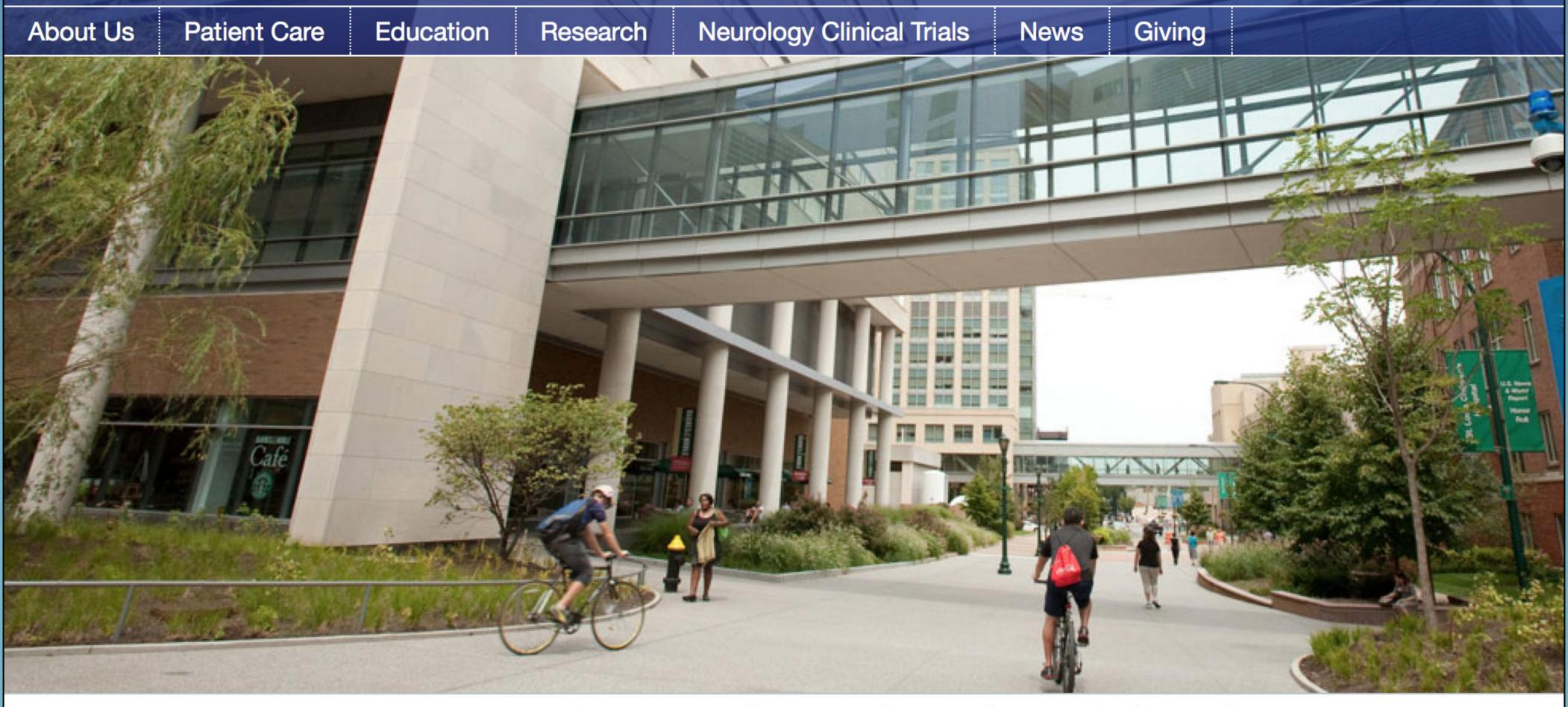




Department of Neurology

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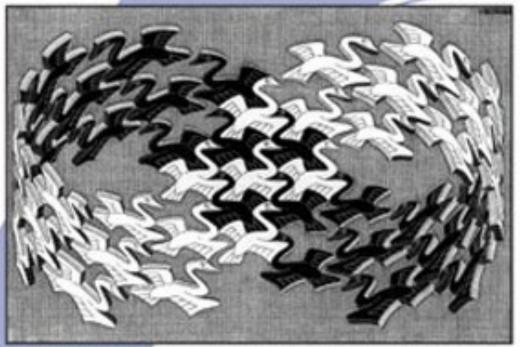
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Computer Science

Design Patterns

Elements of Reusable Object-Oriented Software

Erich Gamma Richard Helm Ralph Johnson John Vlissides



Course art C 1994 ALC Facher / Cordon Art - Basen - Holland All rights resona

Foreword by Grady Booch



Architectural Patterns for Enabling Application Security

Joseph Yoder

Department of Computer Science University of Illinois at Urbana-Champaign Urbana, IL 61801 j-yoder@uiuc.edu

Jeffrey Barcalow

Reuters Information Technology 1400 Kensington Oak Brook, IL 60523 barcalow@xnet.com



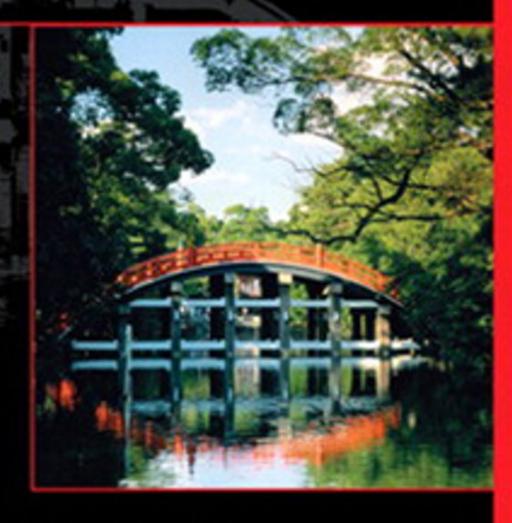
Enterprise Integration Patterns

Designing, Building, and Deploying Messaging Solutions

GREGOR HOHPE BOBBY WOOLF

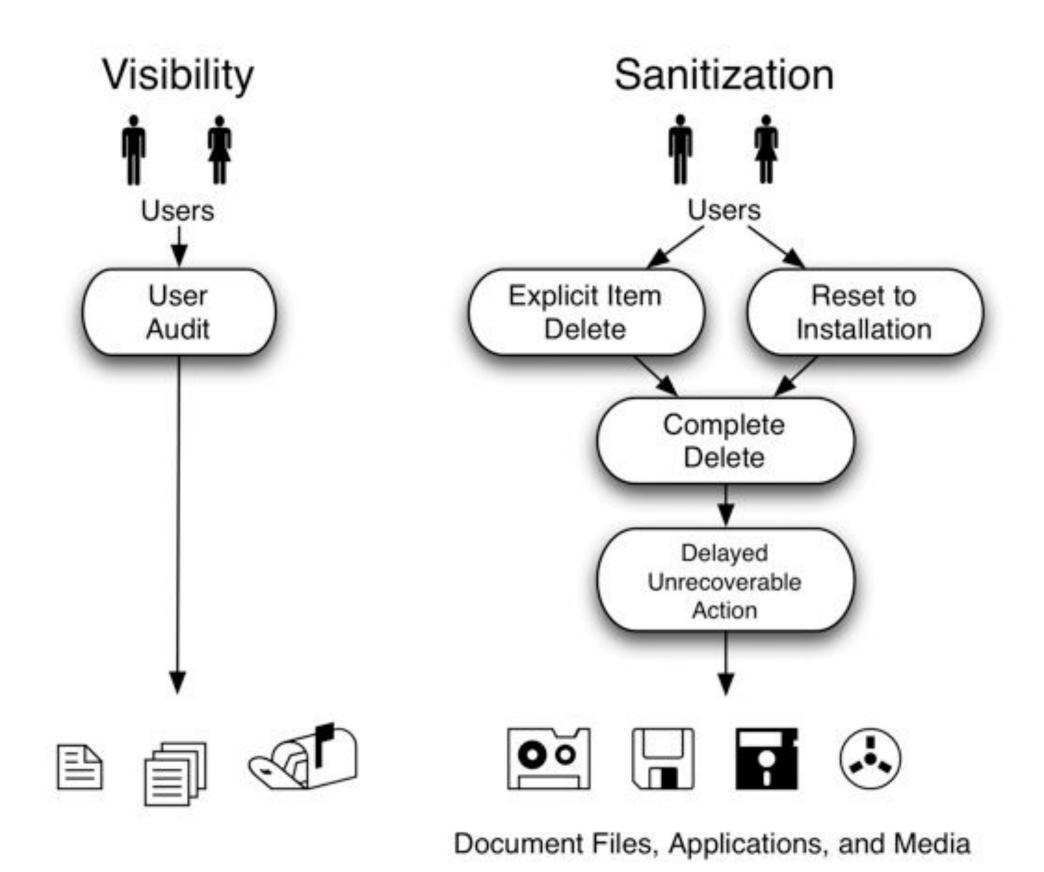
WITH CONTRIBUTIONS BY

KYLE BROWN
CONRAD F. D'CRUZ
MARTIN FOWLER
SEAN NEVILLE
MICHAEL J. RETTIG
JONATHAN SIMON



Forewords by John Crupi and Martin Fowler

Design Principles and Patterns for Computer Systems that are Simultaneously Secure and Usable



Simson L. Garfinkel, April 26, 2005

Carnegie Mellon University Research Showcase

Human-Computer Interaction Institute

School of Computer Science

1-1-2006

Privacy Patterns for Online Interactions

Lorrie Faith Cranor

Carnegie Mellon University

Sasha Romanowsky Carnegie Mellon University

Jason Hong Carnegie Mellon University

Alessandro Acquisti Carnegie Mellon University

Batya Friedman
University of Washington

Development



Design Patterns

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Q

User Interface Design patterns

User Interface Design patterns are recurring solutions that solve common design problems. Design patterns are standard reference points for the experienced user interface designer.





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Responsive Web Design Patterns

Contents ∨

The patterns

Mostly Fluid

Column drop

Layout shifter

•••



By Pete LePage Pete is a Developer Advocate

Responsive web design patterns are quickly evolving, but there are a handful of established patterns that work



COURSE BY:



educative

C. H. Afzal

II2729331BeginnerLessonsPlaygroundsCode SnippetsIllustrations

Being good at problem-solving is one thing but to take your career to the next level, one must know how complex software projects are architected. Software design patterns provide templates and tricks used to design and solve recurring software problems and tasks. Applying time-tested patterns result in extensible, maintainable and flexible high-quality code, exhibiting superior craftsmanship of a software engineer. Being well-versed in knowledge of design patterns allows one to spot brittle and immature code from miles away. The course goes to great lengths to lay bare the esoteric concepts of various design patterns before the reader and is replete with real-world examples and sample code.



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Build responsive, mobile-first projects on the web with the world's most popular front-end component library.

Bootstrap is an open source toolkit for developing with HTML, CSS, and JS. Quickly prototype your ideas or build your entire app with our Sass variables and mixins, responsive grid system, extensive prebuilt components, and powerful plugins built on jQuery.

Get started

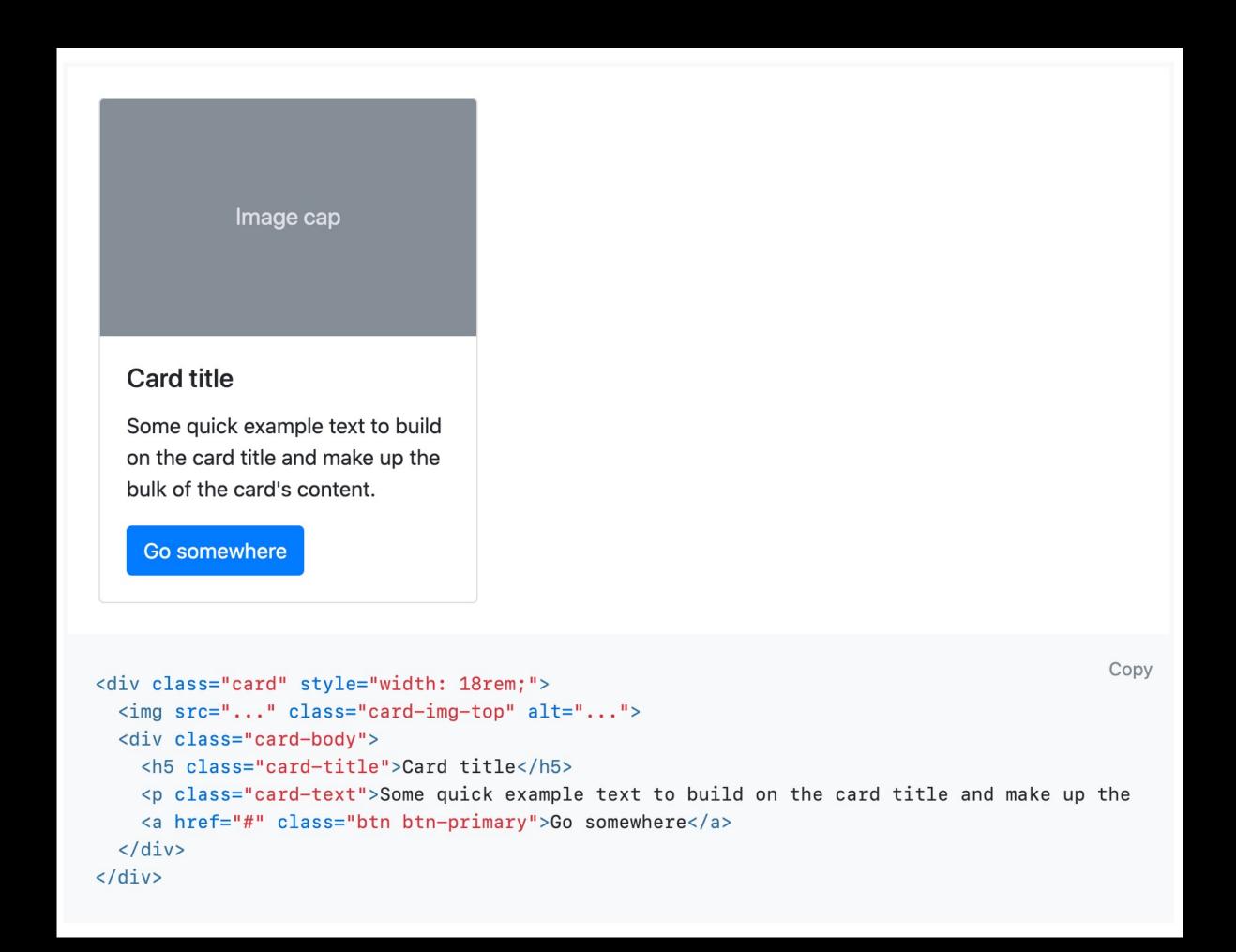
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Currently v4.1.1



Border-radius Add classes to an element to easily round its corners. 75x75 75x75 150x75 75x75 75x75 75x75 75x75 75x75 Copy

Bootstrap 4's classes for the common design pattern of rounded borders



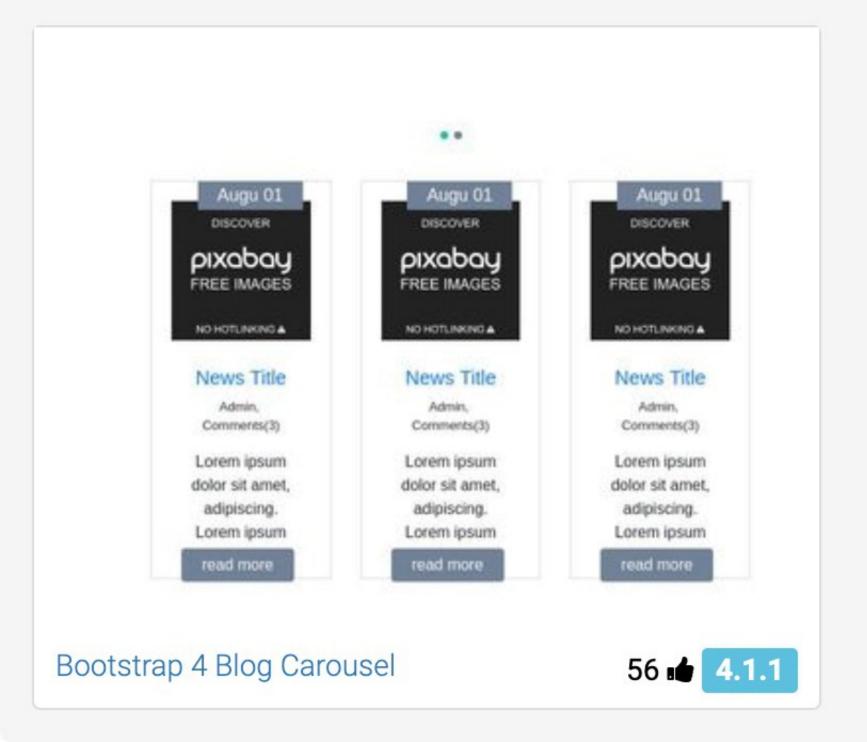
Bootstrap 4's classes for the common design pattern of cards

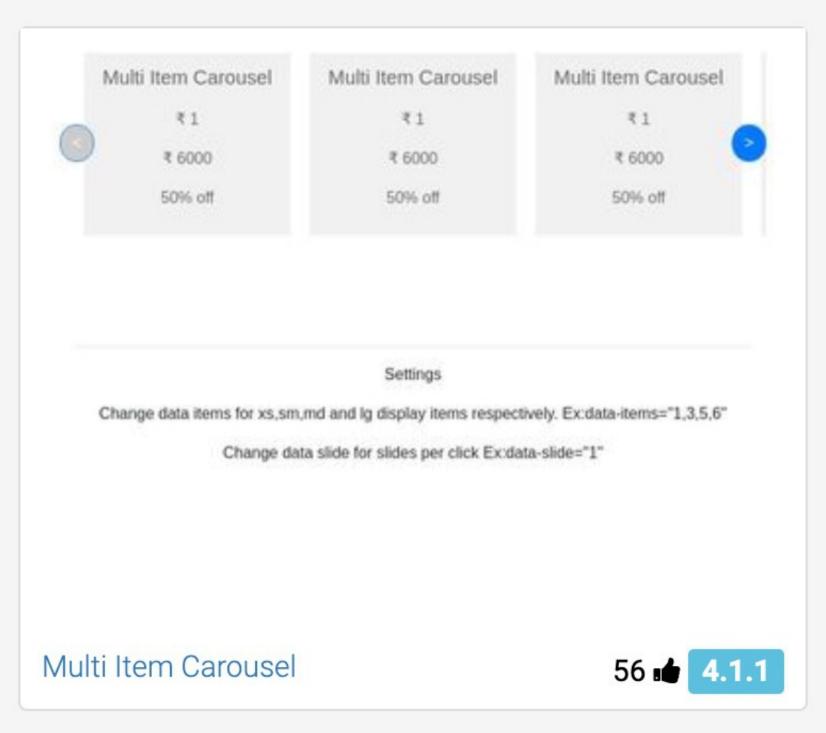
Bootsnipp

Design elements, playground and code snippets for Bootstrap HTML/CSS/JS framework

What is this?

Bootsnipp is an element gallery for web designers and web developers, anybody using Bootstrap will find this website essential in their craft.

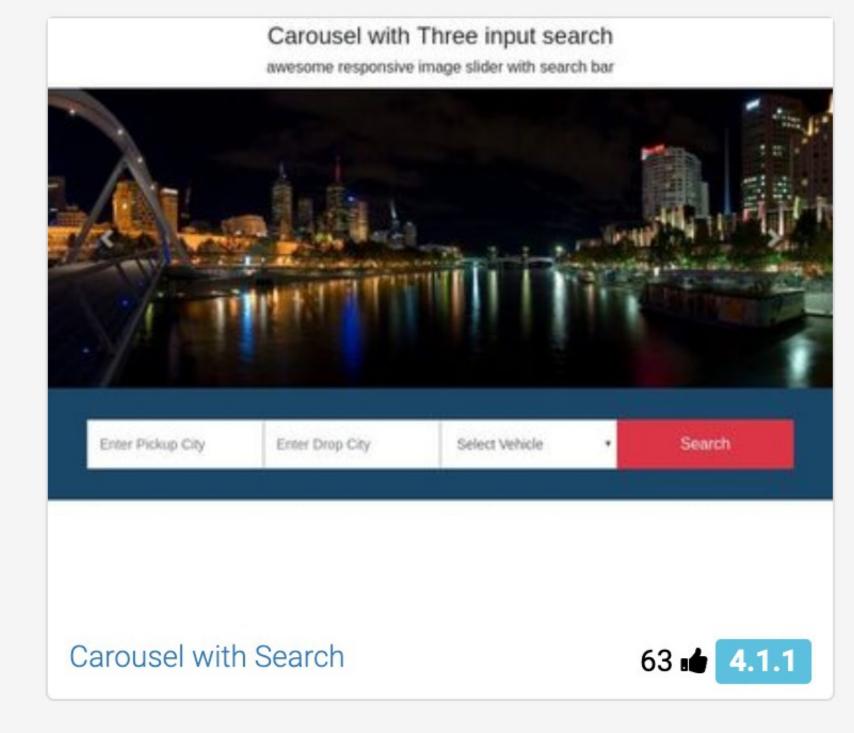




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"A goldmine of information on interaction design"

Don Norman



"Ivy League level education in UX, Product Design or Human-Computer Interaction"

Forbes.com

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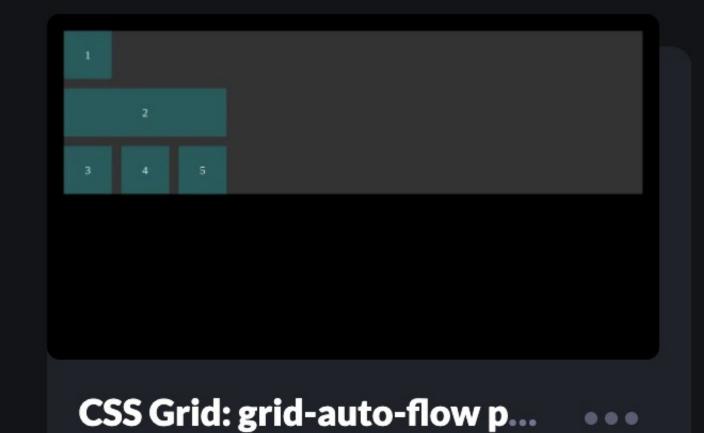
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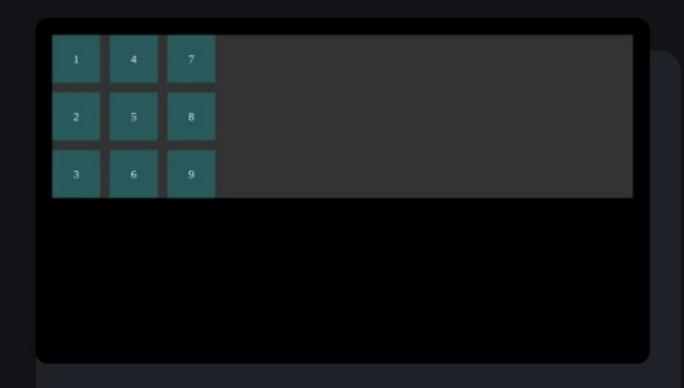
Showcase Popular Public Private Templates Forked Loved Tags



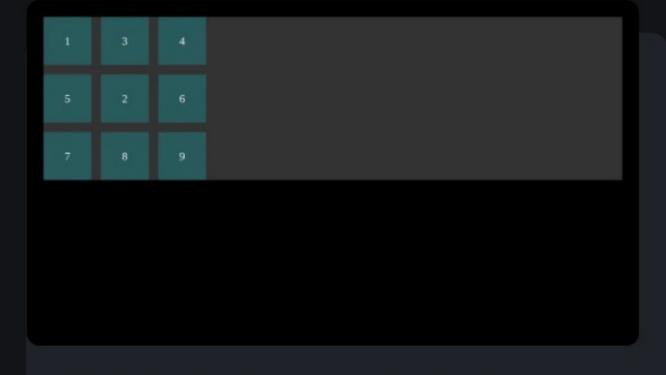
www.websanity.com











CSS Grid: mix of explicit & ...

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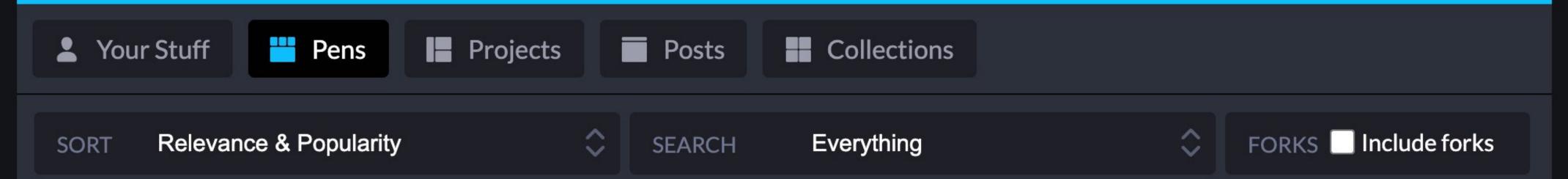
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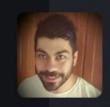






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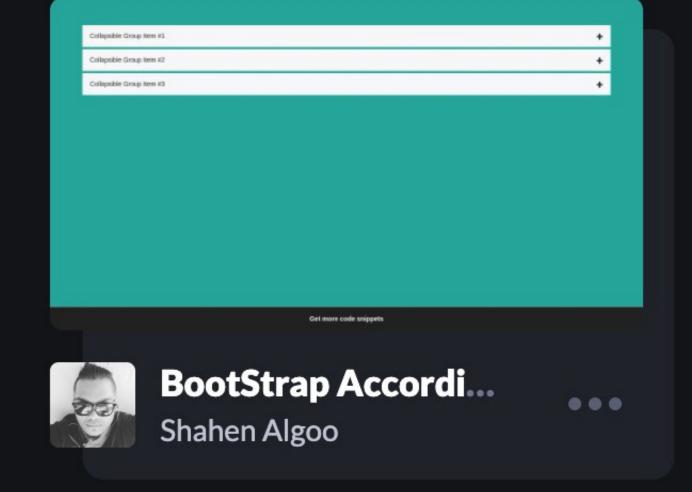


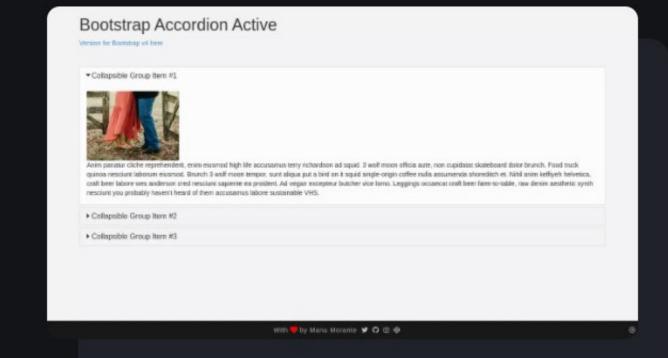
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Andreas Eracleous

DEPTH



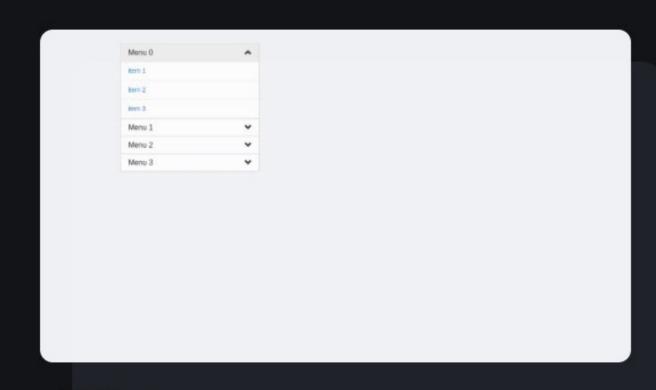


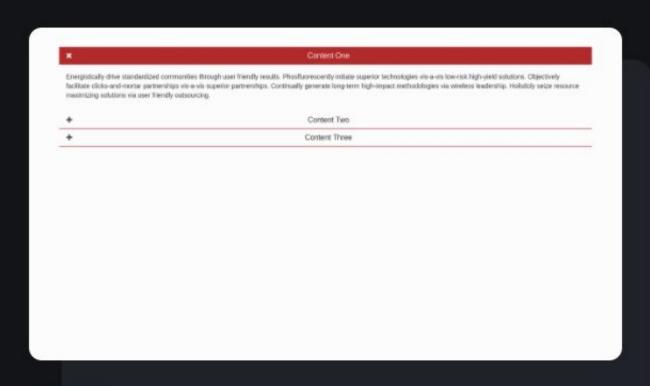


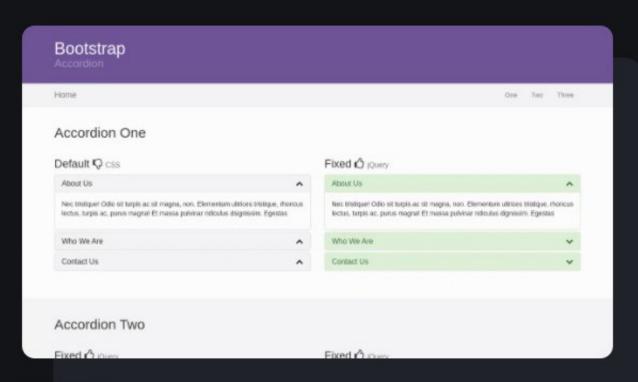
Bootstrap Accordi...

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Manu Morante











Thank you!

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jans@websanity.com websanity.com

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Changelog

2020-07-21 1.8: Updated Bootstrap screenshots & added some new ones

Changelog

2020-07-20 1.7: Updated screenshots in *Web Development*; updated theme to Granneman 1.6; minor fixes; added new book & cites to everything in *Computer Science*

2019-07-22 1.6: Changed theme to Granneman 1.5

2016-01-21 1.5: Added revolving door as a design pattern

Changelog

2015-06-08 1.4: Changed theme to Georgia Pro

2015-01-16 1.3: Added Bootstrap at CodePen; added website example of intimacy gradient

2015-01-15 1.2: Added more Bootstrap sites

2014-08-09 1.1: Moved to new theme

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