

Created by Colin Watson

Version WebApp-1.10-EN (Classic)

OWASP Snakes and Ladders - Web Applications -

Snakes and Ladders is an educational application security awareness game. This version is all about web applications, with the OWASP Top Ten Proactive Controls as ladders, and the well-known OWASP Top Ten Most Critical Risks as snakes. Thank you to the leaders and other contributors of those two projects.

OWASP Top Ten Proactive Controls (2016)

The OWASP Top Ten Proactive Controls is a list of security techniques that should be included in every software development project.

- C1 Verify for Security Early and Often
- C2 Parameterize Queries
- C3 Encode Data
- C4 Validate All Inputs
- C5 Implement Identity and Authentication Controls
- C6 Implement Appropriate Access Controls
- C7 Protect Data
- C8 Implement Logging and Intrusion Detection
- C9 Leverage Security Frameworks and Libraries
- C10 Error and Exception Handling

https://www.owasp.org/index.php/OWASP_Proactive_Controls

OWASP Top Ten Risks (2013)

The OWASP Top Ten represents a broad consensus about what the most critical web application security flaws are.

- A1 Injection
- A2 Broken Authentication and Session Management
- A3 Cross-Site Scripting (XSS)
- A4 Insecure Direct Object References
- A5 Security Misconfiguration
- A6 Sensitive Data Exposure
- A7 Missing Function Level Access Control
- A8 Cross-Site Request Forgery (CSRF)
- A9 Using Components with Known Vulnerabilities
- A10 Unvalidated Redirects and Forwards

<https://www.owasp.org/index.php/TopTen>

The source file for this sheet, sheets on other application security topics, various language versions, and further information about the OWASP Snakes and Ladders project can be found on the OWASP website at https://www.owasp.org/index.php/OWASP_Snakes_and_Ladders

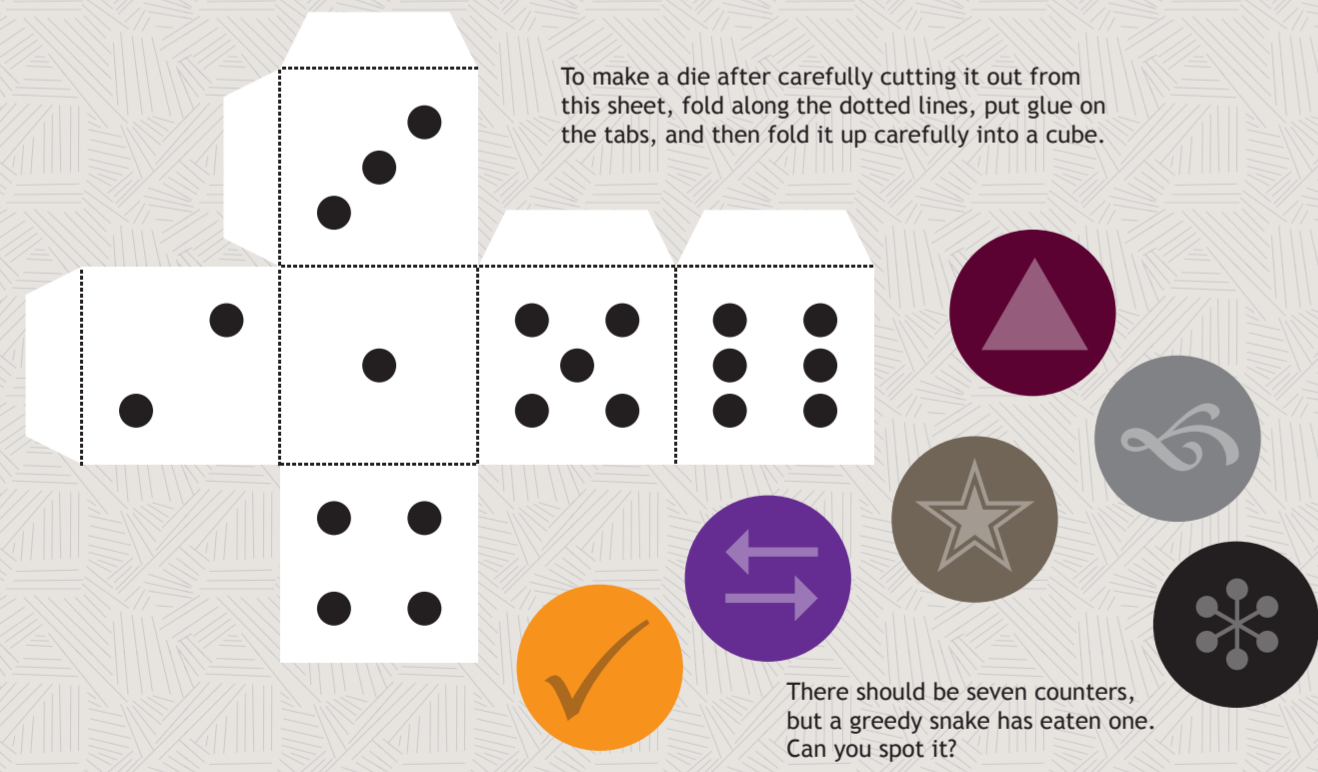
Background

Snakes and Ladders is a popular board game, imported into Great Britain by the Victorians based on a game from Asia. The original game showed the effects of good and evil, or virtues and vices. The game is known as Chutes and Ladders in some parts of the Americas. In this OWASP version, the virtuous behaviours are secure coding practices (the proactive controls) and the vices are application security risks.

Warning

OWASP Snakes and Ladders is meant to be used by software programmers, big and small. This paper game sheet is not harmful, but if you choose to use your own plastic or wooden die and counters, those might have a choking risk for children under 4 years old.

No die or counters? Cut the shapes out below use the coloured circles as counters for each player. Alternatively write a computer program to simulate a six-sided die, or use a random number generator app on your phone or computer to create integers between 1 and 6. Check how random it is though!



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100	99	98	97	96	95	94	93	92	91
81	82	83	84	85	86	87	88	89	90
80	79	78	77	76	75	74	73	72	71
61	62	63	64	65	66	67	68	69	70
60	59	58	57	56	55	54	53	52	51
41	42	43	44	45	46	47	48	49	50
40	39	38	37	36	35	34	33	32	31
21	22	23	24	25	26	27	28	29	30
20	19	18	17	16	15	14	13	12	11
1	2	3	4	5	6	7	8	9	10

Finish (100)

Start (1)

OWASP-A1 Injection

OWASP-A2 Broken Authentication and Session Management

OWASP-A3 Cross-Site Scripting (XSS)

OWASP-A4 Insecure Direct Object References

OWASP-A5 Security Misconfiguration

OWASP-A6 Sensitive Data Exposure

OWASP-A7 Missing Function Level Access Control

OWASP-A8 Cross-Site Request Forgery (CSRF)

OWASP-A9 Using Components with Known Vulnerabilities

OWASP-A10 Unvalidated Redirects and Forwards

OWASP-C1 Verify for Security Early and Often

OWASP-C2 Parameterize Queries

OWASP-C3 Encode Data

OWASP-C4 Validate All Inputs

OWASP-C5 Implement Identity and Authentication Controls

OWASP-C6 Implement Appropriate Access Controls

OWASP-C7 Protect Data

OWASP-C8 Implement Logging and Intrusion Detection

OWASP-C9 Leverage Security Frameworks and Libraries

OWASP-C10 Error and Exception Handling